SAMSUNG

C24B550U / C24B750X / C27B750X

User Manual

The color and the appearance may differ depending on the product, and the specifications are subject to change without prior notice to improve the performance.

BN46-00219A-05

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Chapter. 1

Before Using the Product

Copyright

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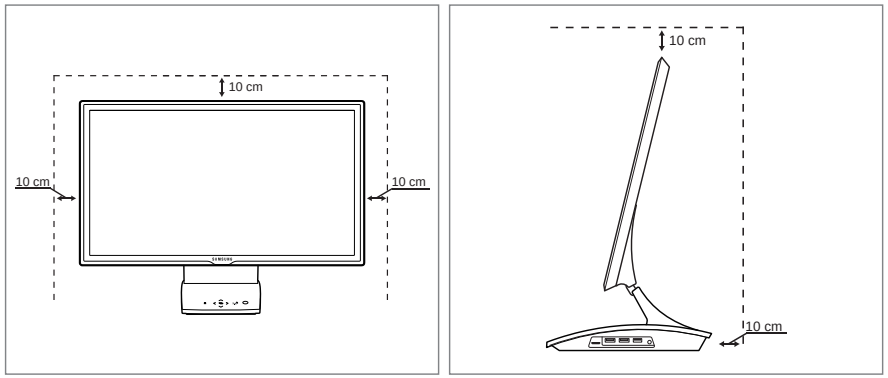
- An administration fee may be charged if either.
  - (a) an engineer is called out at your request and there is no defect in the product (i.e. where you have failed to read this user manual).
  - (b) you bring the unit to a repair center and there is no defect in the product (i.e. where you have failed to read this user manual).
- The amount of such administration charge will be advised to you before any work or home visit is carried out.

Securing the Installation Space

Ensure some space around the product for ventilation. An internal temperature rise may cause fire and damage the product. Be sure to allow the amount of space as shown below or greater when installing the product.

- The exterior may differ depending on the product.



Precautions for storage

High-glossy models can develop white stains on the surface if an ultrasonic wave humidifier is used nearby.

- Contact your nearest Samsung Customer Service Center if you want to clean the inside of the product (Service fee will be charged.)

Safety Precautions

Caution

Do not open the cover. You may suffer an electric shock.

The components inside this product must not be repaired by home users.

Contact a technician for repair.

Symbols

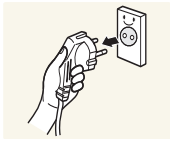
Warning	A serious or fatal injury may result if instructions are not followed.
Caution	Personal injury or damage to properties may result if instructions are not followed.
	Activities marked by this symbol are prohibited.
	Instructions marked by this symbol must be followed.

Cleaning

The following images are for reference only. Real-life situations may differ from what is shown in the images.

Exercise care when cleaning as the panel and exterior of advanced LCDs are easily scratched.

Take the following steps when cleaning.



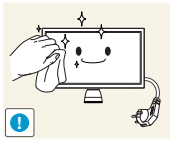
1. Power off the product.

2. Remove the power cable from the product.

NOTE

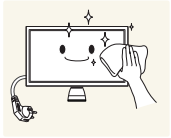
Hold the power cable by the plug and do not touch the cable with wet hands.

Otherwise, an electric shock may result.

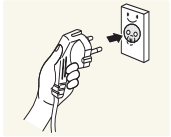


3. Wipe the product screen using a clean, soft and dry cloth.

- Do not use detergents that contain alcohol, solvent or surface-active agents.
- Do not spray water or detergent directly on the product.



4. To clean the exterior of the product, use a moist soft cloth and wring thoroughly before wiping the exterior.



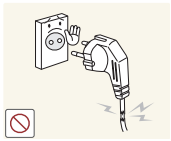
5. After cleaning the product, connect the power cable to the product.

6. Power on the product to use it.

Electricity and Safety

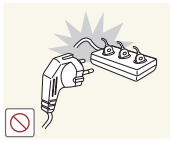
The following images are for reference only. Real-life situations may differ from what is shown in the images.

Warning



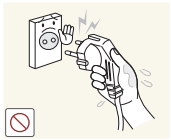
Do not use a damaged power cable or plug, or a loose power socket.

- An electric shock or fire may result.

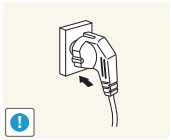


Do not use multiple products with a single power socket.

- Otherwise, the socket may cause a fire.

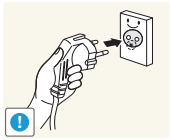


Do not touch the power cable with wet hands.
Otherwise, an electric shock may result.



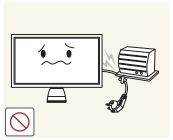
Insert the power cable all the way in so it is not loose.

- An unsecure connection may cause a fire.



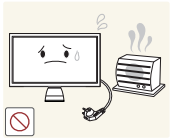
Be sure to plug the power cable into a grounded power socket. (type 1 insulated devices only).

- An electric shock or injury may result.



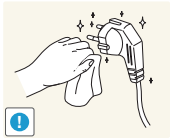
Do not bend or pull the power cable with force. Also, do not place a heavy object on the power cable.

- Damage to the cord may result in a fire or electric shock.



Do not place the power cable or product near heat sources.

- A fire or electric shock may result.



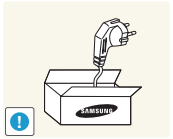
Clean any dust around the pins of the power cable or the power outlet using a dry cloth.

- A fire may result.

Caution

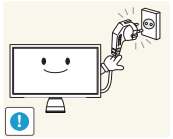
Do not disconnect the power cable while the product is being used.

- The product may become damaged by an electric shock.



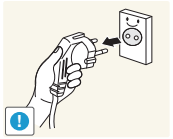
Only use the power cable provided with your product by Samsung. Do not use the power cord with other products.

- A fire or electric shock may result.



Keep the power socket where the power cable is connected unobstructed.

- In the event of a problem with the product, you must disconnect the power cable to cut the power supply to the product.



Hold the plug when disconnecting the power cable from the power socket.

- A fire or electric shock may result.

Installation and Safety

The following images are for reference only. Real-life situations may differ from what is shown in the images.

Warning

DO NOT PLACE CANDLELS, INSECT REPELLANTS OR CIGARETTES ON TOP OF THE PRODUCT. DO NOT INSTALL THE PRODUCT NEAR HEAT SOURCES.

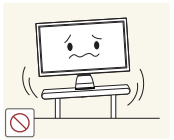
- A fire may resullt.

Do not install the product in poorly ventilated spaces such as a bookcase or closet.

- An increased internal temperature may cause a fire.

Keep the plastic packaging out of the reach of children.

- Children may suffocate.

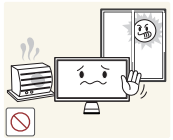


Do not install the product on an unstable or vibrating surface (insecure shelf, sloped surface, etc.)

- The product may fall and become damaged and/or cause an injury.
- Using the product in an area with excess vibration may damage the product or cause a fire.

Do not install the product in a vehicle or a place exposed to dust, moisture (water drips, etc.), oil, or smoke.

- A fire or electric shock may result.



Do not expose the product to direct sunlight, heat, or a hot object such as a stove.

The product lifespan may be reduced or a fire may result.

Do not install the product within the reach of young children.

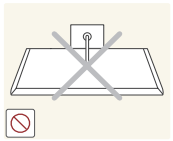
The product may fall and injure children.

Edible oil, such as soybean oil, can damage or deform the product. Do not install the product in a kitchen or near a kitchen counter.

Caution

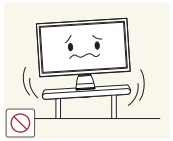
Do not drop the product while moving.

- Product failure or personal injury may result.



Do not set down the product on its front.

- The screen may become damaged.



When installing the product on a cabinet or shelf, make sure that the bottom edge of the front of the product is not protruding.

- The product may fall and break or cause a personal injury.
- Install the product only on cabinets or shelves of the right size.

Set down the product gently

- Product failure or personal injury may result.

Installing the product in an unusual place (a place exposed to a lot of fine particles, chemical substances or extreme temperatures, or an airport or train station where the product should operate continuously for an extended period of time) may seriously affect its performance.

- Be sure to consult Samsung Customer Service Center if you want to install the product at such a place.

Operation and Safety

The following images are for reference only. Real-life situations may differ from what is shown in the images.

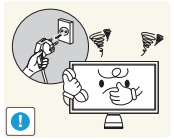
Warning

There is a high voltage inside the product. Never disassemble, repair or modify the product yourself.

- A fire or electric shock may result.
- Contact Samsung Customer Service Center for repairs.

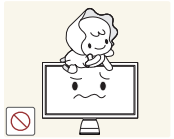
Before moving the product, turn off the power switch and disconnect the power cable and all other connected cables.

- Damage to the cord may result in a fire or electric shock.



If the product generates abnormal sounds, a burning smell or smoke, disconnect the power cable immediately and contact Samsung Customer Service Center.

- An electric shock or fire may result.



Do not let children hang from the product or climb on top of it.

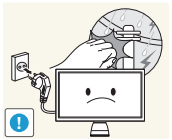
- Children may become injured or seriously harmed.

If the product is dropped or the outer case is damaged, turn off the power switch and disconnect the power cable. Then contact Samsung Customer Service Center.

- Continued use can result in a fire or electric shock.

Do not leave heavy objects or items that children like (toys, sweets, etc.) on top of the product.

- The product or heavy objects may fall as children try to reach for the toys or sweets resulting in a serious injury.



If there is a thunderstorm or lightning strike, turn off the power and disconnect the power cable.

- A fire or electric shock may result.

Do not drop objects on the product or apply impact.

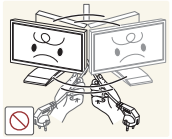
- A fire or electric shock may result.

Do not pull on the product holding only the power cable or any other cable.

- Product failure, an electric shock or fire may result from a damaged cable.

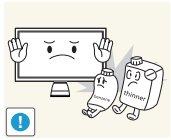
If a gas leakage is found, do not touch the product or power cable. Also, ventilate the area immediately.

- Sparks can cause an explosion or fire.



Do not lift or move the product by pulling the power cable or any cable.

- Product failure, an electric shock or fire may result from a damaged cable.



Do not use or keep combustible spray or an inflammable substance near the product.

- An explosion or fire may result.

Ensure the vents are not blocked by tablecloths or curtains.

- An increased internal temperature may cause a fire.

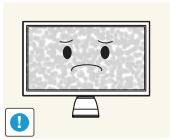
Do not insert metallic objects (chopsticks, coins, hairpins, etc) or objects that burn easily (paper, matches, etc) into the product (via the vent or input/output ports, etc).

- Be sure to power off the product and disconnect the power cable when water or other foreign substances have entered the product. Then contact Samsung Customer Service Center.
- Product failure, an electric shock or fire may result.

Do not place objects containing liquid (vases, pots, bottles, etc) or metallic objects on top of the product.

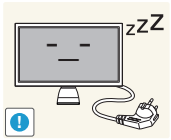
- Be sure to power off the product and disconnect the power cable when water or other foreign substances have entered the product. Then contact Samsung Customer Service Center.
- Product failure, an electric shock or fire may result.

Caution



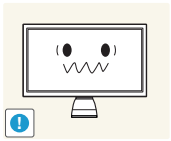
Leaving the screen fixed on a stationary image for an extended period of time may cause afterimage burn-in or defective pixels.

- If you are not going to use the product for an extended period of time, activate power-saving mode or a moving-picture screen saver.



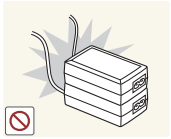
Disconnect the power cable from the power socket when not using the product for an extended period of time (vacation, etc.).

- Dust accumulation combined with heat can cause a fire, electric shock or electric leakage.



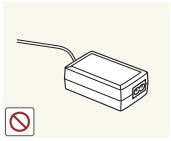
Use the product at the recommended resolution and frequency.

- Your eyesight may deteriorate.



Do not put DC power adapters together.

- Otherwise, a fire may result.

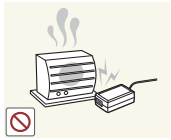


Remove the plastic bag from the DC power adapter before you use it.

- Otherwise, a fire may result.

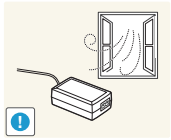
Do not let water enter the DC power adapter or get the adapter wet.

- An electric shock or fire may result.
- Avoid using the product outdoors where it can be exposed to rain or snow.
- Take extra care to ensure the DC power adapter does not get wet when cleaning the floor with water.

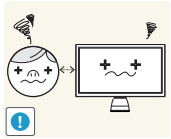


Do not leave the DC power adapter near a heat source.

- Otherwise, a fire may result.



Keep the DC power adapter in a location with good ventilation.



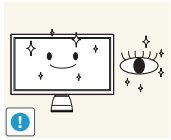
Looking at the screen too close for an extended period of time can deteriorate your eyesight.

Do not hold the product upside-down or move it by holding the stand.

- The product may fall and break or cause a personal injury.

Do not use humidifiers or stoves around the product.

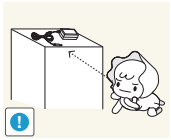
- A fire or electric shock may result.



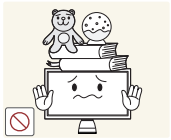
Rest your eyes for more than 5 minutes for every 1 hour of product use.

- Eye fatigue will be relieved.

Do not touch the screen when the product has been turned on for an extended period of time as it will become hot.



Store small accessories out of the reach of children.



Do not place heavy objects on the product.

- Product failure or personal injury may result.

Do not increase the volume too high when using headphones (earphones).

- Sound particularly at a higher volume could potentially affect long-term hearing.

Correct posture to use the product

Use the product in the correct posture as follows:

- Straighten your back.
- Allow a distance of 45 to 50cm between your eye and the screen, and look slightly downward at the screen. Keep your eyes directly in front of the screen.
- Adjust the angle so light does not reflect on the screen.
- Keep your forearms perpendicular to your upper arms and level with the back of your hands.
- Keep your elbows at about a right angle.
- Adjust the height of the product so you can keep your knees bent at 90 degrees or more, your heels attached to the floor, and your arms lower than your heart.

Chapter. 2

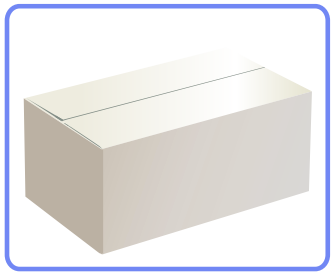
Preparation

Unpacking the Smart Station

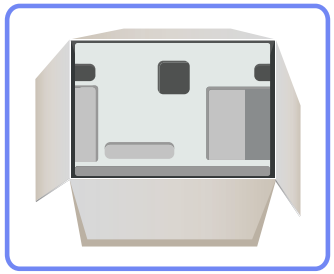
Removing the Packaging

The appearance of the actual product may differ from the images shown.

1. Open the packaging box. Be careful not to damage the product when you open the packaging with a sharp instrument.



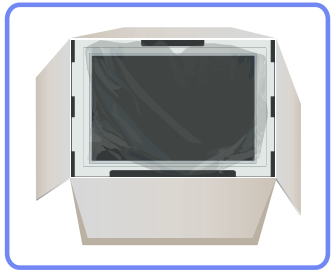
2. Remove the styrofoam from the product.



3. Check the product and remove the styrofoam and plastic bag.

NOTE

- The appearance of the actual product may differ from the image shown.
- This image is for reference only.



4. Store the box in a dry area so that it can be used when moving the product in the future.

Checking the Components

- Contact the vendor where you purchased the product if any components are missing.
- The appearance of the components and items sold separately may differ from the image shown.

Components

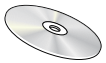
NOTE

Components may vary depending on the country.

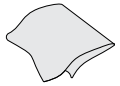
Quick setup guide

Warranty card

(Not available in some locations)



User manual

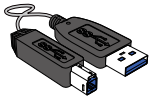


Cleaning cloth

Power cable

DC power adapter

Mobile cable

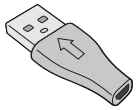


USB 3.0 cable

Wireless-connection dongle

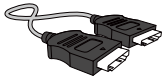
(for Series 7 only)

Mobile holder



USB Connection Kit

(Micro USB to Normal USB)

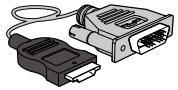


HDMI cable

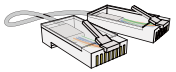
Items sold separately

NOTE

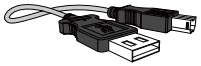
The following items can be purchased at your nearest retailer.



HDMI-DVI cable



LAN cable



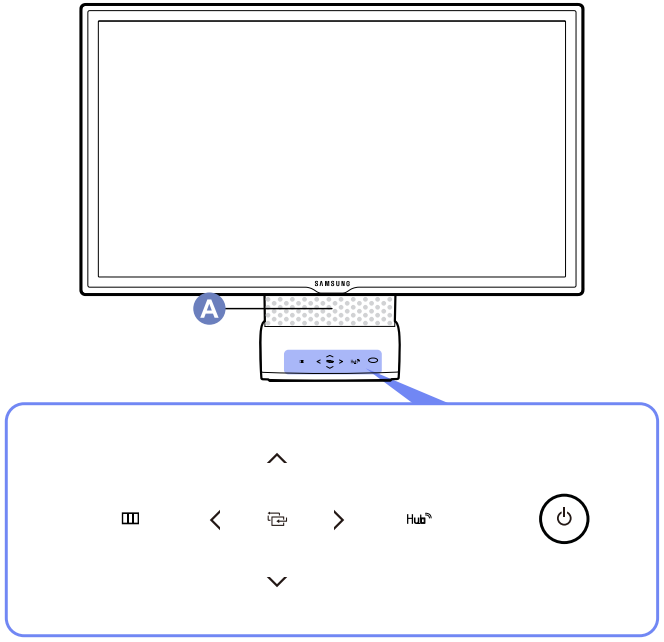
USB 2.0 cable

30pin USB Connection Kit (for Galaxy Tab: USB to 30pin)

Parts

Front Buttons

- The color and shape of parts may differ from what is shown. Specifications are subject to change without notice to improve quality.
- This is a touch-type button. Tap the button lightly with a finger.
- This product contains a power circuit unit causing the stand to generate heat. The heat does not mean the product is defective.



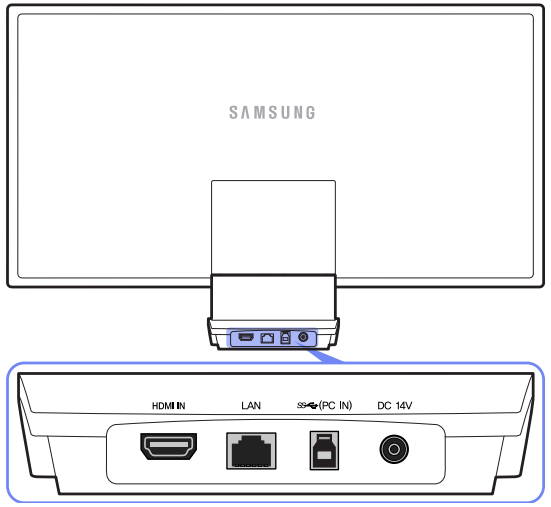
A Speaker (for Series 7 only)

ICONS	DESCRIPTION
	Open or close the onscreen display (OSD) menu, or return to the parent menu.
Hub	Open the HUB settings screen. Conveniently establish a wireless connection Wireless Connection and change the input source Select Source using the HUB menu. **NOTE** To hide the HUB window, press the [Hub] or [] button.
	Turn the power on or off. The power indicator will be lit when the product is operating normally. **NOTE** • For details on the power-saving function, refer to "**Power-saving Function**" in the product specifications. • To reduce power consumption, it is best to remove the power cable when not using the product for an extended period of time.
	Confirm a menu selection. If you press the [] button when a menu screen is not displayed, the input source will be changed. Series 5: HDMI / USB / MHL Series 7: HDMI / USB / Wireless Connection / MHL **NOTE** A message that shows the current input source will appear at the top left corner of the screen each time you turn on the power or press the [] button to change the input source.
^/v	Move to the upper or lower menu or adjust the value for an option on the OSD menu. Adjust the Brightness, Contrast using the [^/v] buttons when the initial screen (that displays no menu screen) is displayed.

ICONS	DESCRIPTION
</>	Move to the left or right menu or adjust the value for an option on the OSD menu. Adjust the Volume using the [</>] buttons when the initial screen (that displays no menu screen) is displayed.

Rear View

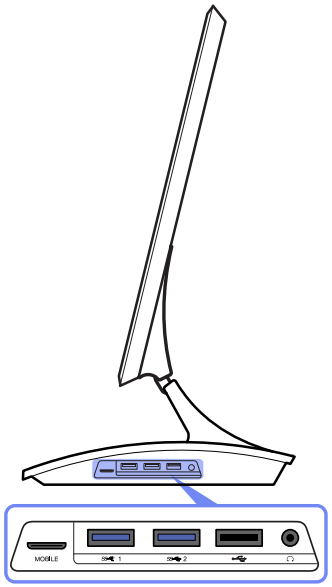
- The color and shape of parts may differ from what is shown. Specifications are subject to change without notice to improve quality.



PORTS	ABOUT PORTS
HDMI IN	Connect to a source device using an HDMI cable.
LAN	Connect to a network using a LAN cable.
(PC IN)	Connect to a PC using a USB cable. **NOTE** This port can connect to a PC only.
DC 14V	Connect to a DC power adapter.

Side

- The color and shape of parts may differ from what is shown. Specifications are subject to change without notice to improve quality.

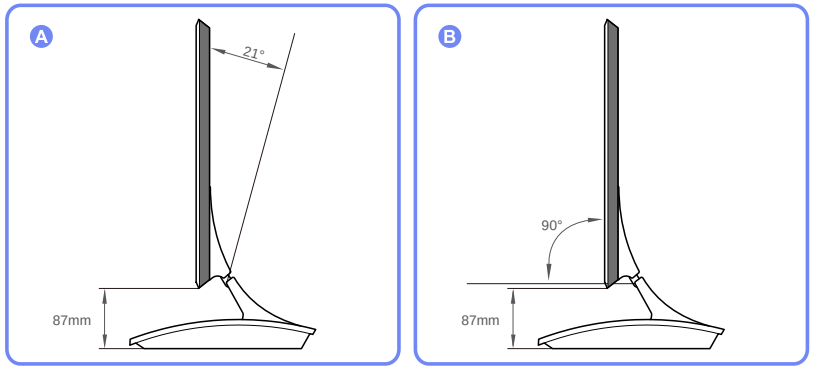


PORTS	ABOUT PORTS
MOBILE	Connect to a mobile device when you want to use the MHL or **Mobile Control** function with the mobile cable. **NOTE** A connection kit is required to connect to some mobile devices. (Connection kit is sold separately.)
SS 1 SS 2	Connect to a source device using a USB 3.0 cable. **NOTE** High-speed charging is possible using the [SS 1] port only. This port allows you to charge a mobile device twice as fast compared to when charging using a standard USB port.

PORTS	ABOUT PORTS
	Connect to a source device using a USB 2.0 cable. **NOTE** High-speed charging is not possible using this port. For high-speed charging, connect your mobile device to the USB 3.0 [SS 1] port.
	Connect to an audio output device such as headphones.

Adjusting the Product Tilt

- The color and shape of parts may differ from what is shown. Specifications are subject to change without notice to improve quality.



A The angle indicates the range the product can be tilted when in use.

B The angle indicates the range the product can be tilted when packaged.

- You can adjust the product tilt.
- To avoid damage to the product when adjusting the tilt, push or pull the top area of the product at the center while holding the top of the stand.

Chapter. 3

Using Smart Station

What is Smart Station?

Smart Station refers to an advanced-concept monitor that offers enhanced usability by providing useful new functions such as Wireless Connection, USB Hub, and **Mobile Control**.

The system is optimized especially for notebook PC users.

Wireless Connection

Smart Station provides a clean cable-free working environment through the Wireless Connection feature.

- Insert a small wireless-connection dongle to your PC. The PC will automatically connect to your Smart Station monitor without the need of a cable.
- The Smart Station monitor automatically detects and connects to a notebook PC (where the wireless-connection dongle is inserted) that is within range. The screen will automatically turn off when the notebook PC is moved out of range.

USB Display / USB Hub

Using older monitors can be inconvenient when using the USB Hub function because you need to connect a USB cable in addition to a display-output cable (D-sub, DVI, etc.).

The USB Display feature of the Smart Station monitor enables the USB Hub and display output to function at the same time using a single USB cable.

- The USB Hub provides three USB ports and one mobile port.
- Unlike notebook PCs and older monitors (that have a limited number of ports) being unable to connect to multiple source devices, the Smart Station monitor allows you to use multiple source devices at the same time using the HUB feature.
- If a wireless connection is established, you can use the wireless USB Hub function without the need to connect a USB cable.

Mobile Control

Connect the Smart Station monitor to your PC and mobile device such as a smartphone. You can control the mobile device using the keyboard and mouse connected to the PC. This feature will allow you to use various services such as SNS more conveniently.

- Sharing a keyboard and mouse: You can control both your mobile device and PC using a single keyboard and mouse.

NOTE

- You can use three monitors by configuring the display settings.
- Wireless Connection is supported on Series 7 only.
- **Mobile Control** supports only mobile devices that have the USB Host function. Support for this feature depends on the specifications of your mobile device.
- Galaxy S2 is supported. Galaxy S2 from Sprint (available in the US market) is not supported because it does not have the USB Host function.
- To find if your mobile device supports USB Host, contact the device manufacturer.

Read the Following before Using the Wireless Connection / USB Hub Functions

1. To use the Wireless Connection / USB Hub functions, connect your PC to the Smart Station monitor using the wireless-connection dongle or USB cable.
2. The USB Display function enables both the display output and USB Hub to function with a single USB cable.
3. Using the USB Hub function is not possible if only an HDMI or HDMI-DVI cable is connected (without a USB cable connected).
4. Playing games usually requires a high resolution and fast response rate. It is recommended to play games in HDMI mode connecting directly to a graphics card rather than using Wireless Connection or USB mode. Playing games or videos is not supported while in Wireless Connection or USB mode on Windows XP or Vista.
5. When the Wireless Connection or USB mode is used for the first time or the power-saving mode is deactivated on the PC, it may take a while for the Wireless Connection or USB mode to be detected.
6. To use the USB Hub function when the Smart Station monitor is in USB mode (where a USB 3.0 cable is connected to your PC) or in Wireless Connection mode, it is recommended to connect the USB cable to the black USB 2.0 port on the monitor.
7. If the PC enters power-saving mode while the Smart Station monitor is in Wireless Connection mode, the Wireless Connection will be disconnected and the USB Hub function will be disabled.

NOTE

Wireless Connection is supported on Series 7 only.

Software Installation for Using Smart Station

To use the product, install on your PC the software provided with the product.

When installing the software for the first time, follow the "Automatic Installation" instructions.

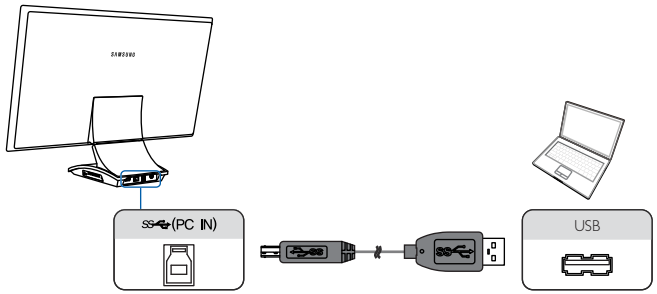
To maximize the performance of the Smart Station monitor, visit www.samsung.com and upgrade the driver periodically.

NOTE

Wireless Connection Manager is for Series 7 only.

Automatic installation when using a notebook PC

1. After opening the package, connect the Smart Station monitor to your notebook PC using the USB cable provided in the package.

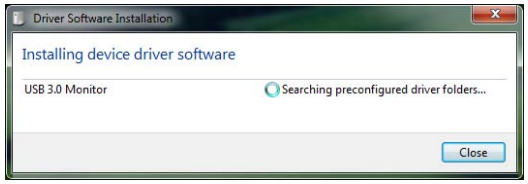


2. After the connection is established between the Smart Station monitor and PC using the USB cable, the following software programs required to use the Wireless Connection, USB Hub, and **Mobile Control** functions will automatically install.

   (**Wireless Connection Manager**, **USB Display Driver**, **Mobile Control**, **Ethernet Driver**)

NOTE

The output from the PC will not be displayed on the monitor until installation is complete.



3. After installation, make the required connections and use the product as instructed below.
   - For Series 5 users

     Press the [Hub] button on the front of the product to change Select Source to USB. Alternatively, press the [⇆] button to change the input source to USB.
   - For Series 7 users: Disconnect the USB cable. Next, connect the wireless-connection dongle to a USB port on the PC.

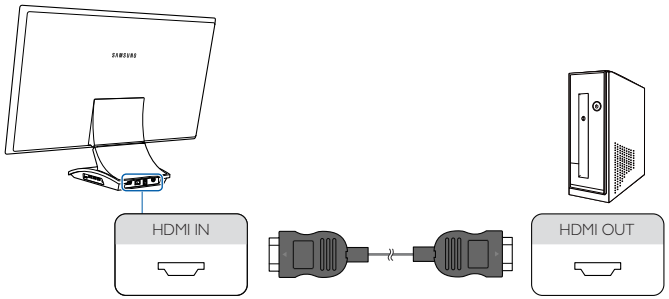
     Press the [Hub] button on the front of the product to change Select Source to Wireless Connection. Alternatively, press the [⇆] button to change the input source to Wireless Connection.

NOTE

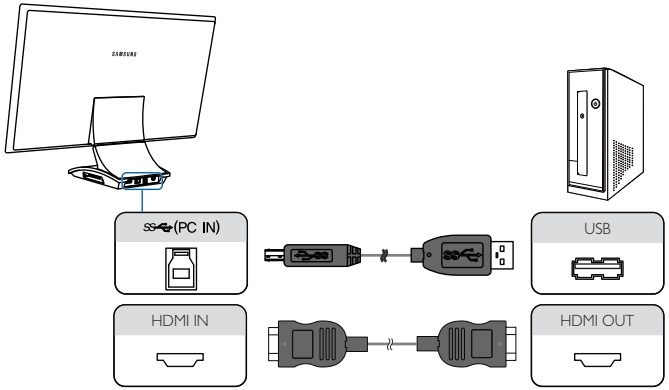
Wireless Connection is supported on Series 7 only.

Automatic installation when using a desktop PC

1. After opening the package, connect the Smart Station monitor to your desktop PC using the HDMI cable provided in the package.

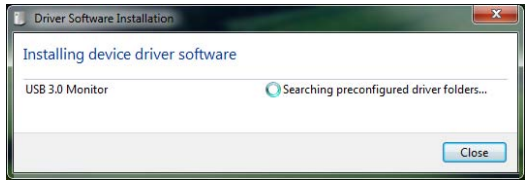


2. Check that the output from the desktop PC is displayed on the monitor.
3. Connect the USB cable provided in the package to a USB port when the HDMI cable is connected.



4. After the connection is established between the Smart Station monitor and PC using the USB cable, the following software programs required to use the Wireless Connection, USB Hub, and **Mobile Control** functions will automatically install.

(**Wireless Connection Manager**, **USB Display Driver**, **Mobile Control**, **Ethernet Driver**)



5. After installation, make the required connections and use the product as instructed below.

- For Series 5 users: Disconnect the HDMI cable. Next, connect the monitor to the PC using only the USB cable.
- For Series 7 users: Disconnect the HDMI and USB cables. Next, connect the monitor to the PC using the wireless-connection dongle.

6. Press the [Hub] button on the front of the product to move to Select Source. Next, change the input source.

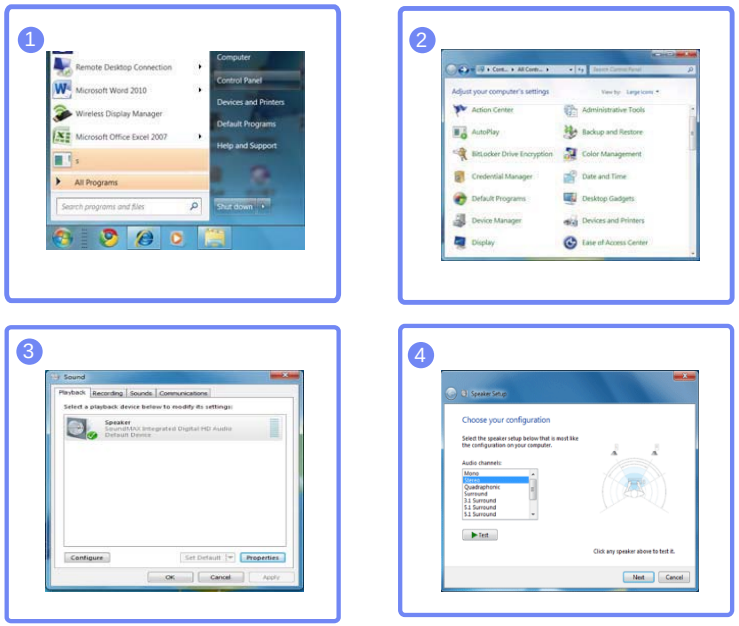
- For Series 5 users: USB
- For Series 7 users: Wireless Connection

NOTE

Wireless Connection is supported on Series 7 only.

* After software installation, adjust the sound output port settings as required.

Control Panel ⟶ Sound ⟶ Speakers ⟶ Configure Speakers



NOTE

- Software installation may be affected by the graphics card, motherboard, or network conditions of the PC.
- Automatic installation may not be supported depending on your PC system settings. If automatic installation does not work, run Windows Explorer. Open **My Computer** – Removable media device drive and check the software. Finally, double-click the software to proceed with installation. Alternatively, install using the software program on the provided CD.

Reinstall and Update

1. Reinstall

If the provided USB cable is connected again after a software program is removed, the removed program will be detected and a message will appear asking whether you want to reinstall the software.

To reinstall, select "**Yes**" to proceed with installation.

2. Software installation using the provided CD

If automatic installation is not supported or you want to reinstall the software manually, insert the provided CD into your PC and install.

In this case, install the required software programs one after another.

3. Update

If the provided CD is missing or the latest version driver is needed, download the latest driver from www.samsung.com.

It is best to update your Smart Station monitor periodically to improve the performance.

Connecting a PC to the Smart Station Monitor (Product)

To use the product, you should connect it to a PC using the wireless-connection dongle or USB cable.

You can listen to the sound by connecting an audio output device (headphones, etc.) to the [🎧] port. (Audio is not supported when an HDMI-DVI cable is used to connect the product to the PC.)

Series 5: HDMI mode ⟶ USB mode ⟶ MHL mode

Series 7: HDMI mode ⟶ USB mode ⟶ Wireless Connection mode ⟶ MHL mode

When the product connects to a PC for the first time, the optimum resolution (1920 x 1080) will be selected automatically and the display will be set to extended mode. From the next time the product connects to the PC, a customized resolution will be applied.

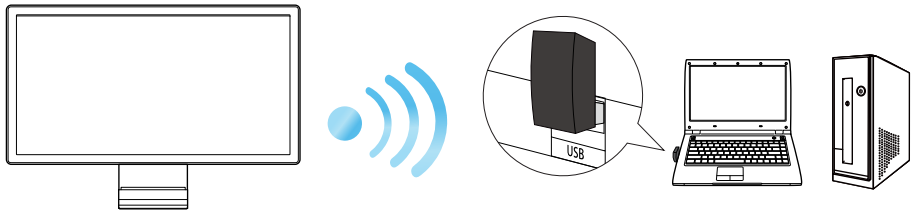
NOTE

- When multiple display output ports on the PC are connected to the product at the same time, each display signal output depends on the system specifications of the PC.
- Wireless Connection is supported on Series 7 only.

Connecting to a PC Using the Wireless-connection Dongle - for Series 7 Only

- Wireless Connection is supported on Series 7 only.
- For details on how to connect using a USB cable, refer to **"Connecting to a PC Using a USB Cable" (page 29)**.

* To connect a PC to the Smart Station wirelessly for Series 7 (C24B750X and C27B750X) users, refer to the following.



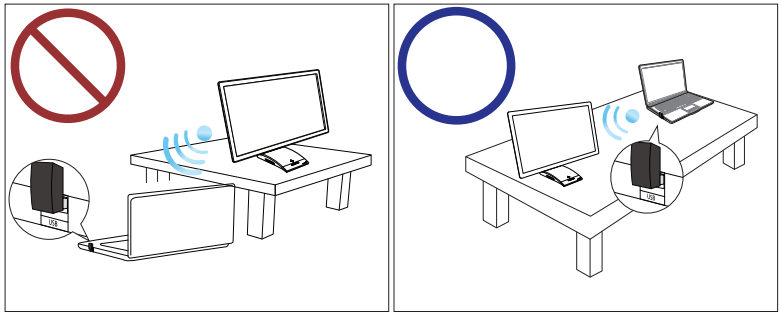
To use the Wireless Connection function, you must connect the wireless-connection dongle (provided as a component) to a USB port on the PC. The wireless-connection dongle allows a wireless connection between the product and a PC. The dongle connected to the PC should point at the product to maximize signal reception.

1. Install the wireless-connection software (automatically by connecting the provided USB cable) before connecting the dongle (refer to page 21). Using a wireless connection is possible only when the wireless-connection software (**Wireless Connection Manager**) is installed.
2. When automatic installation is complete, disconnect the USB cable. Next, connect the wireless-connection dongle provided in the package to a USB port on the PC.
3. Press the [Hub] button on the front of the product to change Select Source to Wireless Connection. Alternatively, press the [⇆] button to change the input source to Wireless Connection.
4. Check if a wireless connection is established.

NOTE

- If a wireless connection cannot be established, double-click **Wireless Connection Manager** installed on the PC to connect to a detected monitor.
- The Smart Station monitor automatically connects to the PC where the wireless-connection dongle is connected when the PC is moved closer. It automatically disconnects when the PC is moved away.
  (To use this function, set Auto Wireless Detection to On in the Hub menu.)

Precautions



NOTE

- Wireless communication can be affected by the surrounding environmental conditions. Do not place any object or obstruction between the product and PC. Objects/obstructions can affect the sensitivity of the signal transmission/reception.
- The wireless-connection dongle on the PC must point at the product. Ensure the product and PC are at the same level.
- If the product and PC are not placed at the same level as shown in the image, the table can be an obstacle and degrade wireless performance even though the dongle on the PC is pointing at the product.
- The sensitivity of the signal reception/transmission can affect the performance of video or game playback (choppy or slowed-down video).
- To maximize the signal transmission/reception, insert the wireless-connection dongle into the nearest USB port (on the PC) to the product.
- Wireless communication performance is optimal within a range of 1.5m from the product.
- Ensure the product and PC are placed at the same level (on the same table, etc.). Otherwise, the sensitivity of the signal transmission/reception can be degraded.
- Using the product on a steel table can degrade performance.
- Do not place any object that can obstruct the signal transmission in front of the product. Such objects may decrease signal reception.
- The product cannot connect to multiple PCs wirelessly at the same time.

Using Wireless Connection (Wireless Connection Manager)

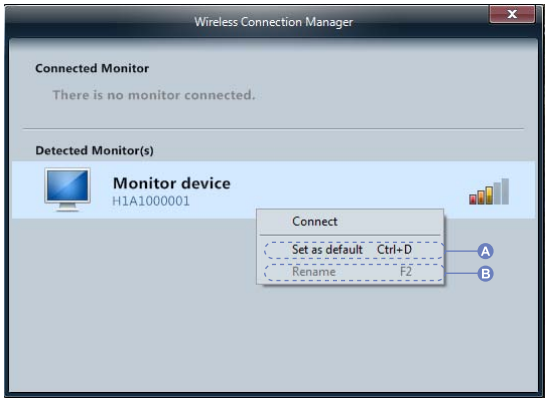
Wireless Connection Manager is for Series 7 only.

The **Wireless Connection Manager** program allows you to connect your PC to the Smart Station monitor wirelessly.

To use a Wireless Connection, you must install the **Wireless Connection Manager** program. Have the program install automatically by connecting the provided USB cable during the initial setup (refer to page 21).

You can use the USB Hub feature as well as display the PC screen over a wireless connection without the need of a cable.

1. Connect your PC to the product using the USB cable provided in the package. **Wireless Connection Manager** will automatically install.
2. After the program is installed, remove the USB cable. Next, connect the provided wireless-connection dongle to a USB port on the PC.
3. Press the [ ] icon at the far right side of the taskbar to install **Wireless Connection Manager**.
4. Run **Wireless Connection Manager**. A list of monitors you can connect to will appear. Double-click or right-click the desired monitor. Next, select **Connect**.



A You can set the desired monitor as the primary monitor **Set as default**. Double-click or right-click the desired monitor. Next, select **Set as default**.

B You can change the name of a monitor. Double-click or right-click the desired monitor. Next, select **Rename**.

Auto Wireless Detection

If Auto Wireless Detection mode is enabled, the product will automatically connect or disconnect from the notebook PC when the notebook PC is moved closer or further away. Make your wireless connection experience even more convenient through Auto Wireless Detection.

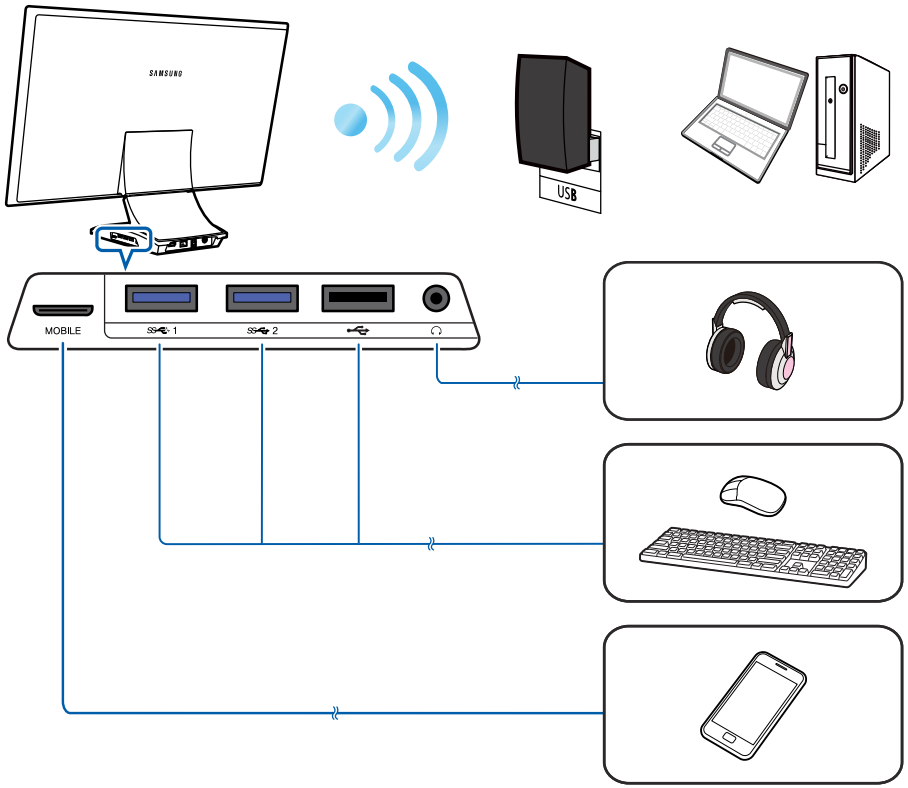
1. Run **Wireless Connection Manager**.
2. Right-click on the monitor you want to connect to. Next, select **Set as default**.
3. Press the [Hub] button on the product. Next, set Auto Wireless Detection to On.

Using the Wireless-connection Dongle as a Hub

- Wireless Connection is supported on Series 7 only.
- For details on how to use a USB cable as a hub, refer to **"Using the Product as a USB Hub" (page 30)**.

Connect various source devices (peripherals, etc.) to the product using it as a hub.

- A PC cannot connect to multiple source devices at the same time because there are a limited number of input/output ports available. The HUB feature of the product will improve your work efficiency by allowing you to connect source devices (peripherals, etc.) to the USB ports on the product without the need to connect them to a PC.
- Connecting source devices to the product will make your work area tidy and improve the portability of your notebook PC compared to when connecting them to the notebook PC.
  - The product has one mobile port and three USB ports (including one Ethernet port). Refer to page 16~17 for further details on the ports.
- Connect a mobile device such as an MP3 player or smartphone to the product when connected to a PC. This allows you to control the device from the PC or charge the device battery.



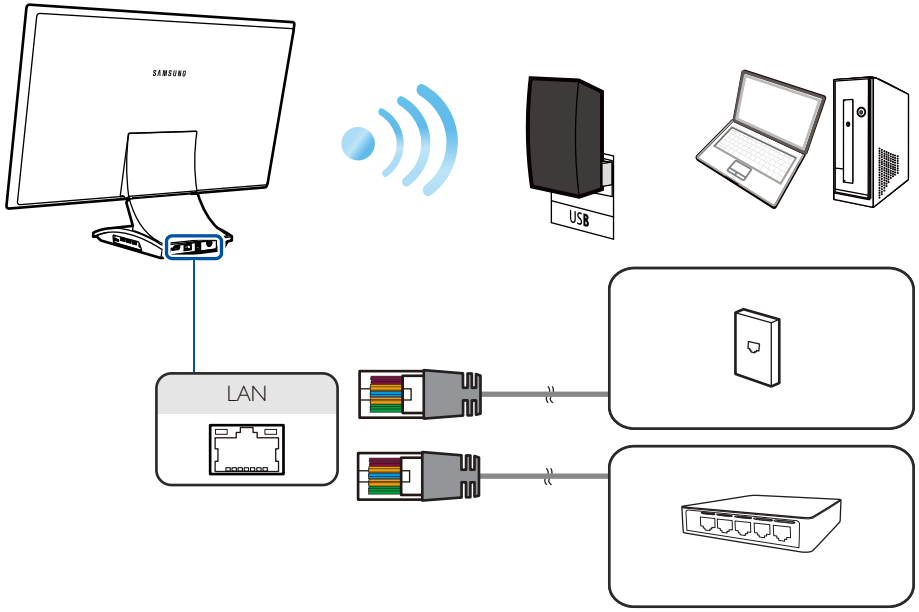
NOTE

- To detect and start a source device faster, connect the device to the blue USB 3.0 port on the product.
- An external mass-storage HDD requires an external power supply. Be sure to connect it to a power source.
- High-speed charging is possible using the [SS 1] port only. This port allows you to charge a mobile device twice as fast compared to when charging using a standard USB port.
- Battery charging is possible in power-saving mode. However, it is not possible when the product is powered off.
- Note that the battery will not be charged if the power cable is disconnected from the power socket.
- Mobile devices should be purchased separately.

LAN Connection - Wireless

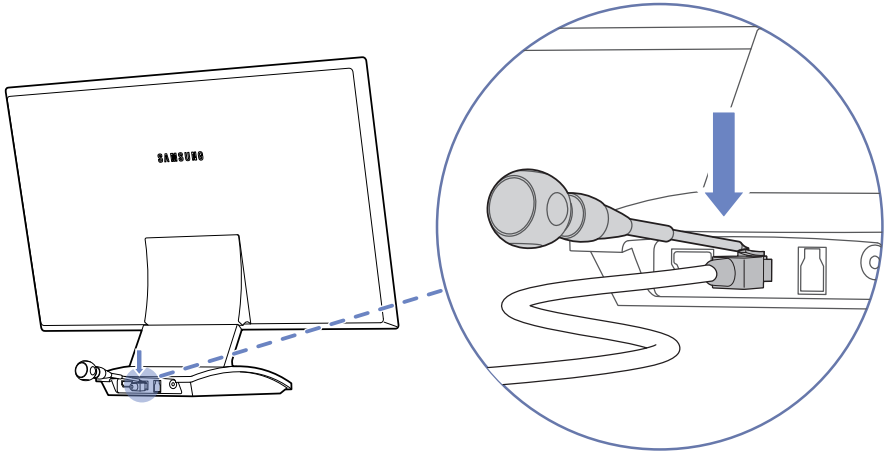
- Wireless Connection is supported on Series 7 only.
- For details on how to establish a LAN connection using a USB cable, refer to "**LAN Connection - Wired(page 31)**".

The Smart Station function allows you to access the Internet from your PC by connecting the LAN cable to the product (when connected to a PC). There is no need to directly connect the LAN cable to the PC.



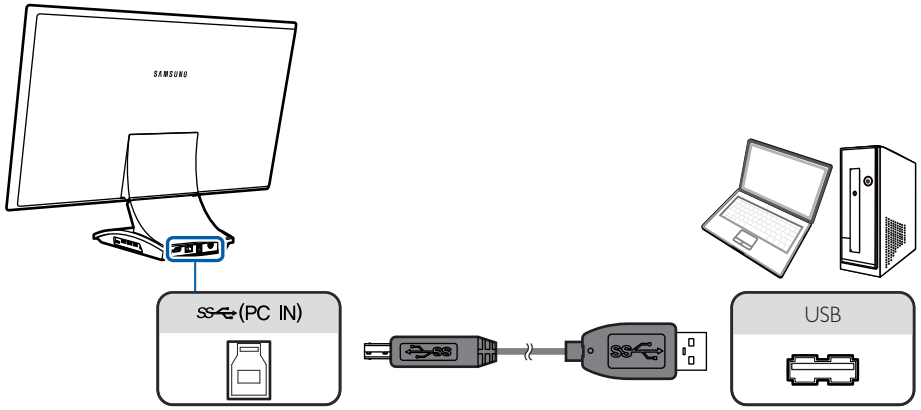
LAN disconnection

- You can remove the LAN cable using a flat-head screwdriver or ruler.



Connecting to a PC Using a USB Cable

For details on how to establish a wireless connection using the wireless-connection dongle, refer to **"Connecting to a PC Using the Wireless-connection Dongle" (page 25)**.



1. Connect the USB cable to the [(PC IN)] port on the back of the product and a USB port on the PC.
2. Press the [Hub] button on the front of the product to change Select Source to USB. Alternatively, press the [] button to change the input source to USB.

NOTE

- The product is compatible with a USB 2.0 cable. However, it is best to use a USB 3.0 cable to ensure full functionality of the product.
- The product screen may appear blank when some notebook PCs are connected using the USB 3.0 cable. If the screen is blank, connect your notebook PC using a USB 2.0 cable.

To connect to a PC using a USB cable

1. Connect the USB cable to the product and PC.
2. Press the [] button until the input source of the product changes to USB. Alternatively, press the [Hub] button and click Select Source - USB.
3. The product will display the PC screen when the connection is established.

Automatic / Manual USB Cable Connection

The input source may automatically change to USB if a connection is established between the product and PC via the USB cable. If the input source does not change to USB automatically, press the [] button until the input source changes to USB. Alternatively, press the [Hub] button and click Select Source - USB.

NOTE

- If a USB cable and the wireless-connection dongle are connected at the same time, the highest priority is given to the Wireless Connection. The product cannot connect to multiple PCs wirelessly at the same time.
- Wireless Connection is supported on Series 7 only.

Using the Product as a USB Hub

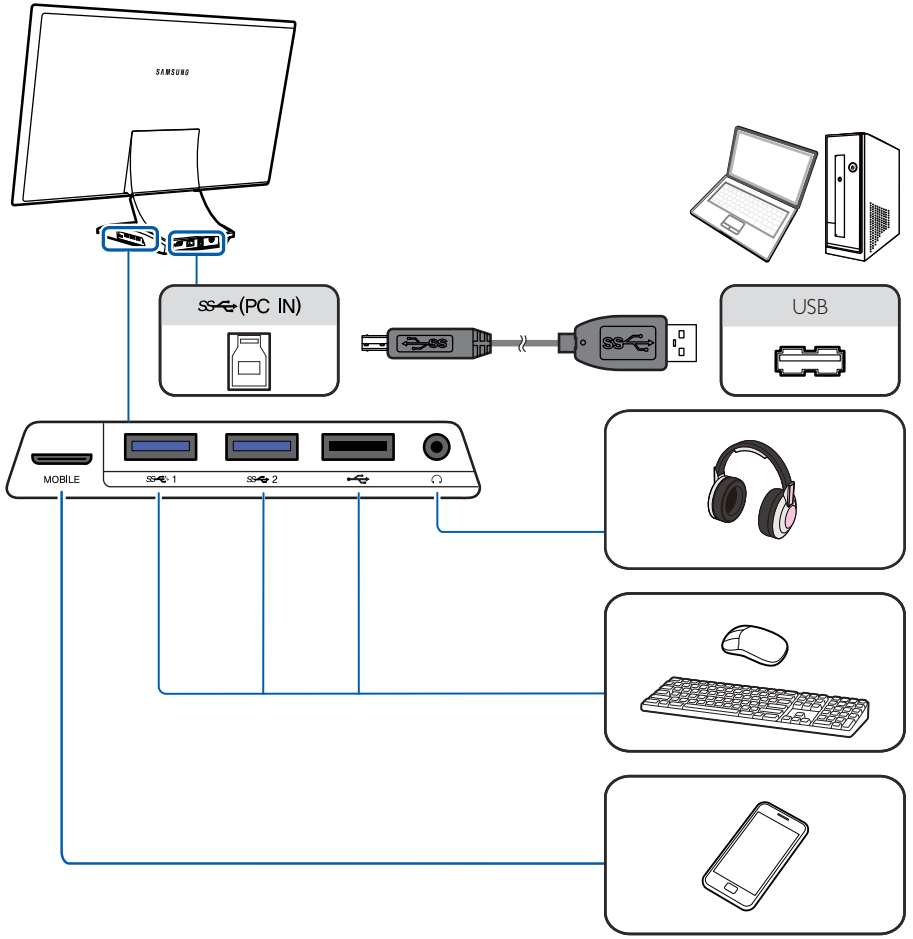
For details on how to use the wireless-connection dongle as a hub, refer to **"Using the Wireless-connection Dongle as a Hub" (page 27)**.

Using the product as a hub, connect and use various source devices with the product at the same time.

- A PC cannot connect to multiple source devices at the same time because there are a limited number of input/output ports available. The HUB feature of the product will improve your work efficiency by allowing you to connect source devices (peripherals, etc.) to the USB ports on the product without the need to connect them to a PC.
- If source devices are connected to the PC, the numerous cables around the PC can get tangled and look messy. Connecting them directly to the product will resolve this.
- Connect a mobile device such as an MP3 player or smartphone to the product when connected to a PC. This allows you to control the device from the PC or charge the device battery.

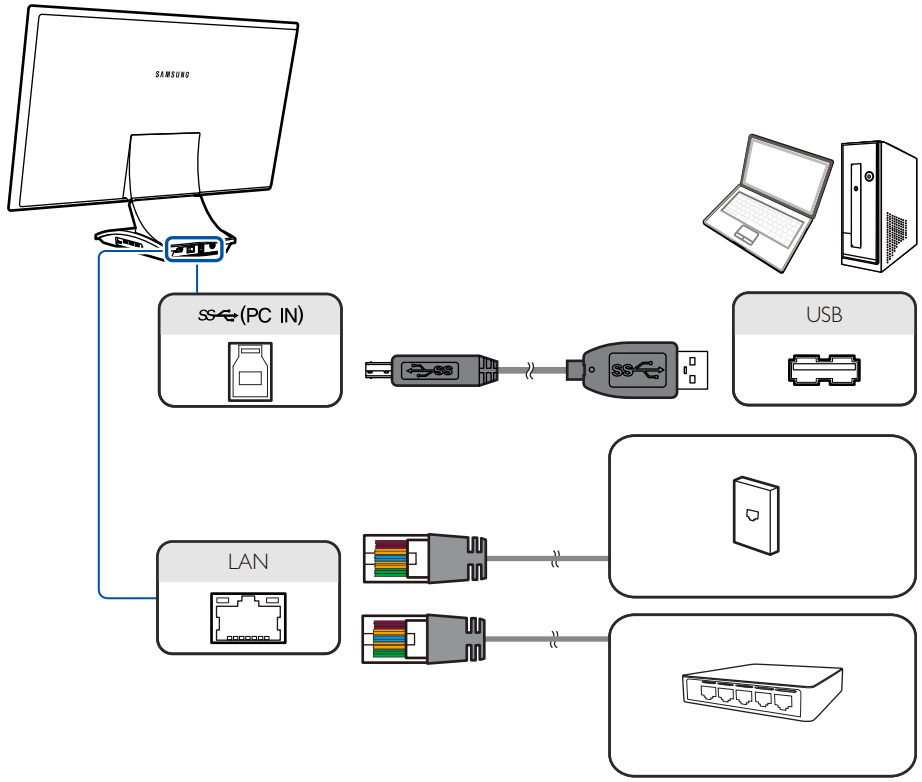
NOTE

- To detect and start a source device faster, connect the device to the blue USB 3.0 port on the product.
- An external mass-storage HDD requires an external power supply. Be sure to connect it to a power source.
- High-speed charging is possible using the [SS 1] port only. This port allows you to charge a mobile device twice as fast compared to when charging using a standard USB port.
- Battery charging is possible in power-saving mode. However, it is not possible when the product is powered off.
- Battery charging is not possible if the power cable is disconnected from the power socket.
- Mobile devices should be purchased separately.



LAN Connection - Wired

The Smart Station function allows you to access the Internet from your PC by connecting the LAN cable to the product (when connected to a PC). There is no need to directly connect the LAN cable to the PC.



NOTE

You can remove the LAN cable using a flat-head screwdriver or ruler.

Refer to the "**LAN disconnection(page 28)**" section for further details.

Monitor IP Setup

1. Install the integrated software for the Smart Station monitor.
2. Go to **Control Panel** → **Network and Internet** → **Network and Sharing Center** → **Change adapter settings**.
3. You can see that the following two devices are displayed.

   a. The user PC's network device

   b. The Smart Station monitor's network device (USB to Ethernet adapter)

   The two devices above refer to your PC's LAN network device and your Smart Station monitor's network device.

NOTE

To access the Internet using the LAN network of the Smart Station monitor, you must configure the network as follows according to the type of IP you will be using.

Dynamic IP

Dynamic IP address mode automatically configures the network settings on the PC using data sent by a server that allocates an IP address. This is possible as a result of the "Dynamic Host Configuration Protocol (DHCP)" service. The service consists of three steps: an IP address allocation request is sent to the DHCP server when the PC boots up, the DHCP server that receives the request transmits network information such as the IP address to the PC, and the transmitted network information is automatically configured for the network settings on the PC. The DHCP service is convenient and useful especially in an environment where many PCs are used. Generally, the IP address should change each time the PC boots up (or an IP allocation is requested). In most cases, however, the existing IP address is re-allocated. An Internet router performs two roles at the same time. It creates a private internal IP address (NAT service) and automatically allocates the IP address to each PC (DHCP service).

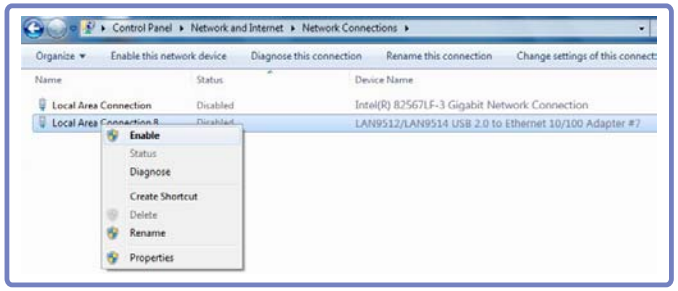
NOTE

When using the LAN network of the Smart Station monitor or PC, ensure you connect the LAN cable to only one of the two networks. If you connect the LAN cable to both networks, a system crash may occur.

1. Connect the LAN cable to the Smart Station monitor.
2. Set the network device of the Smart Station monitor to **Enable** using the **Network Settings** menu.

NOTE

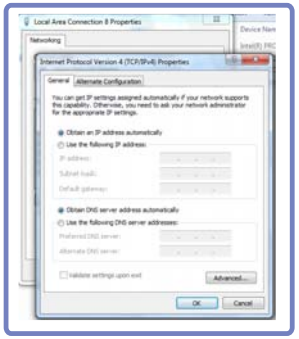
To enable the network device of the Smart Station monitor, go to **Control Panel** ⟶ **Network and Internet** ⟶ **Network and Sharing Center** ⟶ **Change adapter settings**. ⟶ Select the Smart Station monitor network device (displayed as **LAN9512/LAN9514 USB 2.0 to Ethernet 10/100 Adapter**). ⟶ Right-click on your mouse. ⟶ Select **Enable**.



3. Check that **Obtain an IP address automatically** is selected for the network device of the Smart Station monitor in the network properties.

NOTE

To check that the network device of the Smart Station monitor is set to obtain an IP address automatically, go to **Control Panel** ⟶ **Network and Internet** ⟶ **Network and Sharing Center** ⟶ **Change adapter settings**. ⟶ Select the Smart Station monitor network device (displayed as **LAN9512/LAN9514 USB 2.0 to Ethernet 10/100 Adapter**). ⟶ Right-click on your mouse. ⟶ Select **Properties**. ⟶ Select **Internet Protocol Version 4(TCP/IPv4)**. ⟶ Select **Properties**.



Static IP

To configure the IP address (private or official) on your PC, someone (usually a server) must allocate an IP address to the PC. An external IP address is allocated to you by your Internet service provider. An internal IP address is allocated to you by your Internet router. You can select whether to configure the IP address on the PC automatically or manually. The static IP address mode is used to manually enter an IP address. The static IP address mode is suitable if the IP address for the PC should not be changed (such as for a file sharing server) and generally is not used, except under such special circumstances.

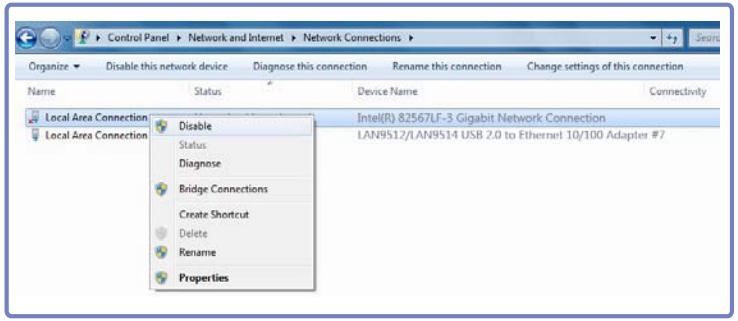
NOTE

When using the LAN network of the Smart Station monitor or PC, ensure you connect the LAN cable to only one of the two networks. If you connect the LAN cable to both networks, a system crash may occur.

1. Set the LAN network on your PC to **Disable** using the **Network Settings** menu.

NOTE

To disable the LAN network on your PC, go to **Control Panel** ⟶ **Network and Internet** ⟶ **Network and Sharing Center** ⟶ **Change adapter settings**. ⟶ Select the network device of your notebook PC. ⟶ Right-click on your mouse. ⟶ Select **Disable**.



2. Right click on the network device of the Smart Station monitor (displayed as **LAN9512/LAN9514 USB 2.0 to Ethernet 10/100 Adapter**), and select **Enable**.

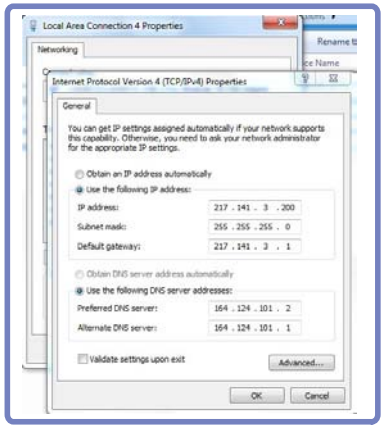
NOTE

This process must be done before IP configuration.

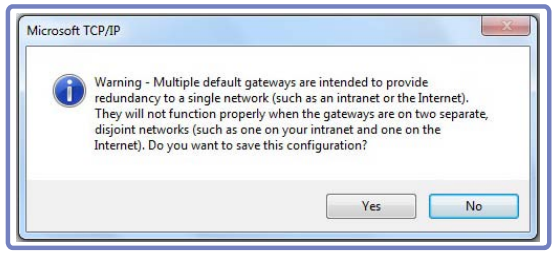
3. Enter the static IP address assigned to the network device of the Smart Station monitor.

NOTE

To enter the static IP address, go to **Control Panel** ⟶ **Network and Internet** ⟶ **Network and Sharing Center** ⟶ **Change adapter settings**. ⟶ Select the network device of the Smart Station monitor (displayed as **LAN9512/LAN9514 USB 2.0 to Ethernet 10/100 Adapter**). ⟶ Right-click on your mouse. ⟶ Select **Properties**. ⟶ Select **Internet Protocol Version 4 (TCP/IPv4)**. ⟶ Select **Properties**. ⟶ Configure the static IP and DNS settings.


Local Area Connection 4 Properties
Networking
Internet Protocol Version 4 (TCP/IPv4) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
217 . 141 . 3 . 200
Subnet mask:
255 . 255 . 255 . 0
Default gateway:
217 . 141 . 3 . 1
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
164 . 124 . 101 . 2
Alternate DNS server:
164 . 124 . 101 . 1
Validate settings upon exit
Advanced...
OK
Cancel

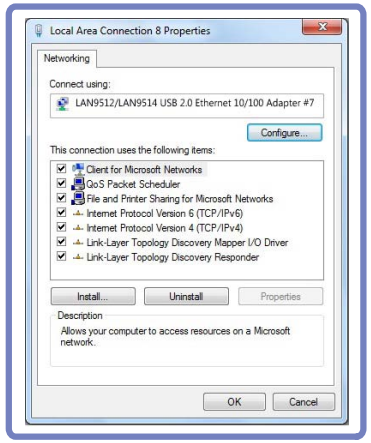
4. After setting the IP, click **OK**. When the following message appears, click **No**.


Microsoft TCP/IP
Warning - Multiple default gateways are intended to provide redundancy to a single network (such as an intranet or the Internet). They will not function properly when the gateways are on two separate, disjoint networks (such as one on your intranet and one on the Internet). Do you want to save this configuration?
Yes
No

NOTE

- A static IP address is assigned to a single network device. The above message appears when the same static IP address is assigned to both the LAN network device on your PC (disabled) and the network device of the Smart Station monitor. Ensure the network device you are not using is set to **Disable**.
- To use the LAN network on your PC, change the settings accordingly:
  Set the network device of the Smart Station monitor to **Disable**. ⟶ Enable the network device on the PC. ⟶ Configure the IP.

5. Click the **Close** button.



What is Mobile Control?

The **Mobile Control** program allows you to control a device (smartphone, tablet, notebook PC, etc.) connected to the Smart Station monitor using a keyboard and mouse connected to the Smart Station monitor or PC. If a notification is received on your smartphone while you are on your PC, you can conveniently move your keyboard and mouse pointer focus to the smartphone. You can also use a tablet as a secondary display. The **Mobile Control** provides you with enhanced usability by allowing you to control two devices using a single keyboard and mouse and connect different kinds of devices.

* To use the **Mobile Control**, you must connect a mobile device that has the host function to the Smart Station monitor.

Using the **Mobile Control** function is not possible when a mobile device that does not have the host function is connected.

Using Mobile Control (Sharing Your Keyboard / Mouse)

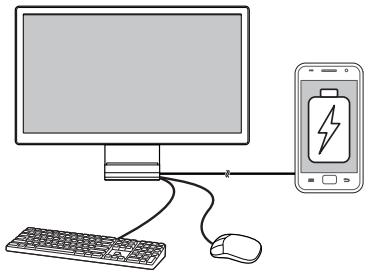
Connect your PC to the Smart Station monitor using the USB cable provided in the package. The **Mobile Control** and **Wireless Connection Manager** software will automatically install.

NOTE

- Check the instructions according to the type and operating system of your mobile device.
- The software may not install automatically due to an anti-virus program on the PC. If this is the case, install **Mobile Control** by running the program install file on the provided manual CD.
- **Wireless Connection Manager** is for Series 7 only.

About Mobile Control Mode

- [ ] **Charging / Control Mode**

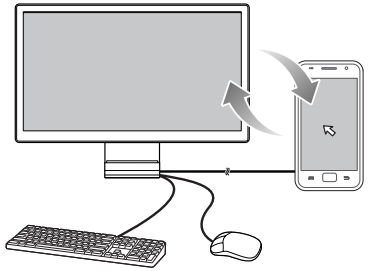


The battery of the connected device can be charged.

The mouse movement will slow down slightly the moment the mouse pointer focus is moved to the connected device.

The battery will not charge if the keyboard and mouse pointer focus is on the mobile device.

- [ ] **Fast Control Mode**



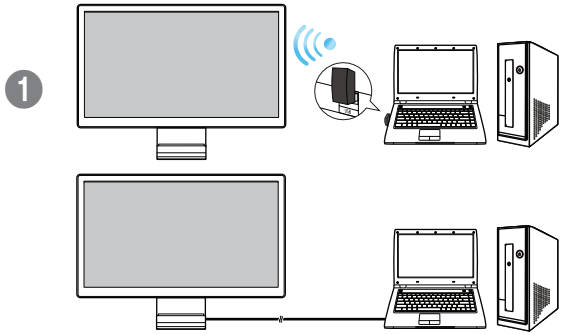
The connected device cannot be charged.

The keyboard and mouse pointer focus can be quickly moved to the connected device.

NOTE

- **Mobile Control** supports only mobile devices that have the USB Host function. Support for this feature depends on the specifications of your mobile device.
- **Galaxy S2** is supported. **Galaxy S2** from **Sprint** (available in the US market) is not supported because it does not have the USB Host function.

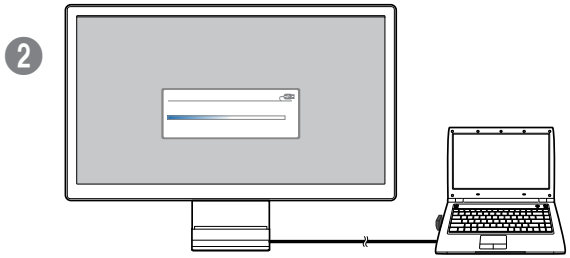
Using the Mobile Control



Connect your PC to the product using the wireless-connection dongle or a USB cable.

NOTE

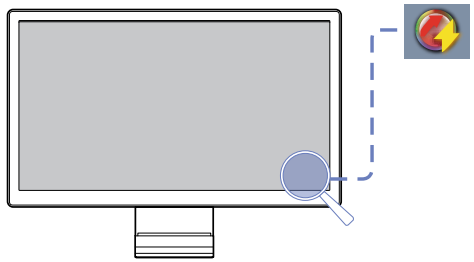
- Connect your PC to the product using the wireless-connection dongle or a USB cable.
- For further details on how to connect, refer to **"Software Installation for Using Smart Station" (page 21)**.



If the PC is connected to the product, **Mobile Control** and **Wireless Connection Manager** will automatically install.

NOTE

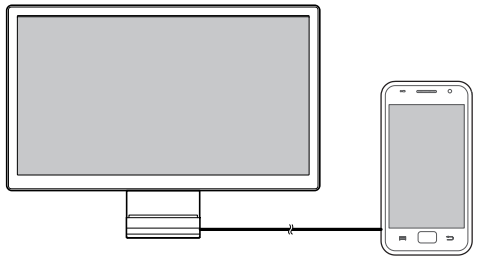
- If installation does not start automatically, install the **Mobile Control** program using the install file found on the user manual CD provided.
- **Wireless Connection Manager** is for Series 7 only.



After the software is installed, the **Mobile Control** icon will appear on the far right side of the taskbar.

NOTE

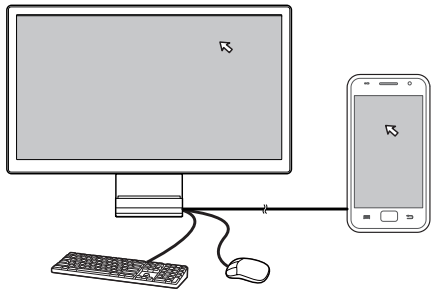
Charging/Control Mode will be set as default. You can then charge the connected device.



Connect the mobile device to the product using the mobile cable.

NOTE

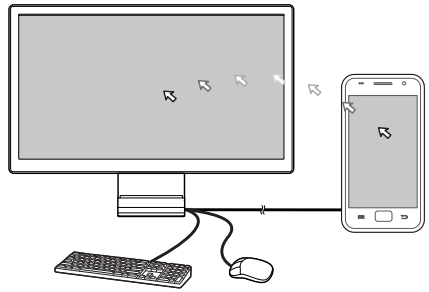
- A connection kit is required to connect to some mobile devices.
- For further details on how to connect, refer to **"Connecting and Using Devices by Type" (page 36)**.



To move the mouse and keyboard pointer focus to the mobile device, press the mouse wheel or the shortcut keys (Alt + S) on the keyboard.

NOTE

The shortcut keys can be customized in the custom settings window. Refer to **"Changing the Settings" (page 40)**.



To move the mouse input and keyboard focus to a mobile device more quickly, double click the **Mobile Control** icon on the right to activate **Fast Control Mode**.

NOTE

In this mode, movement of the mouse input and keyboard focus is faster but battery charging is not possible.

Connecting and Using Devices by Type

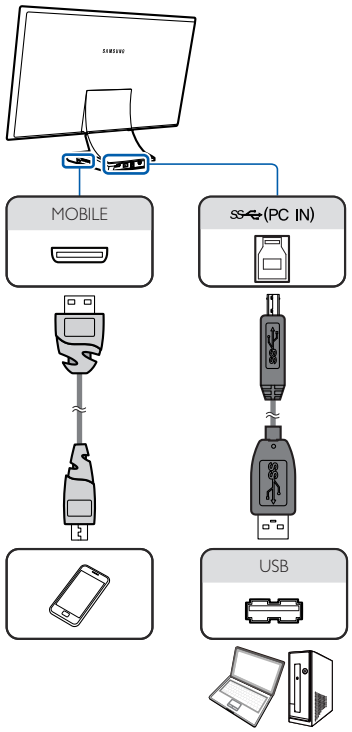
Check the proper instructions for the device you will be using.

- Mobile devices should be purchased separately.

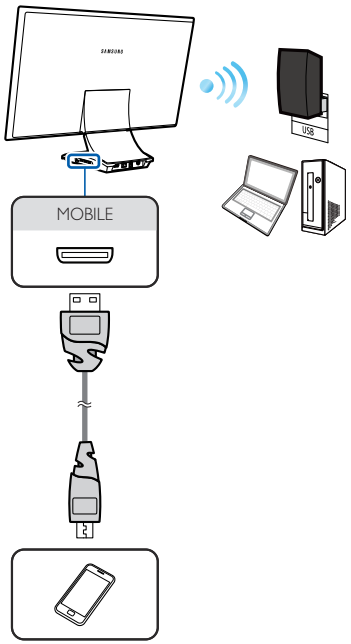
Android smartphones

* When your mobile device has a Micro USB port

Wired connection



Wireless connection (for Series 7 only)



NOTE

Before connecting to your mobile device, check that the **Mobile Control** icon is found on the far right side of the taskbar.

1. Connect your Android smartphone to the Smart Station monitor using the mobile cable.
2. After the connection is established, **Charging/Control Mode** will be set as default. You can then charge your smartphone. In this mode, it may take a while to shift the keyboard and mouse pointer focus to the smartphone.
3. To move the keyboard and mouse pointer focus to the smartphone, press the mouse wheel or the shortcut keys (Alt + S) on the keyboard. The mouse cursor will move to the smartphone. You can now use the keyboard and mouse on your smartphone.

   NOTE

   - If the keyboard or mouse input focus is on the mobile device, the PC cannot be controlled using the same input device (keyboard or mouse).
   - To move the keyboard and mouse input focus back to the PC, press the center button on the mouse or press the shortcut keys (Alt+S) on the keyboard.
4. To move the keyboard and mouse pointer focus to the smartphone more quickly, double-click the **Mobile Control** icon on the far right side of the taskbar and activate Fast Control Mode. In this mode, shifting the keyboard and mouse pointer focus is faster and the battery charging function is not available.

NOTE

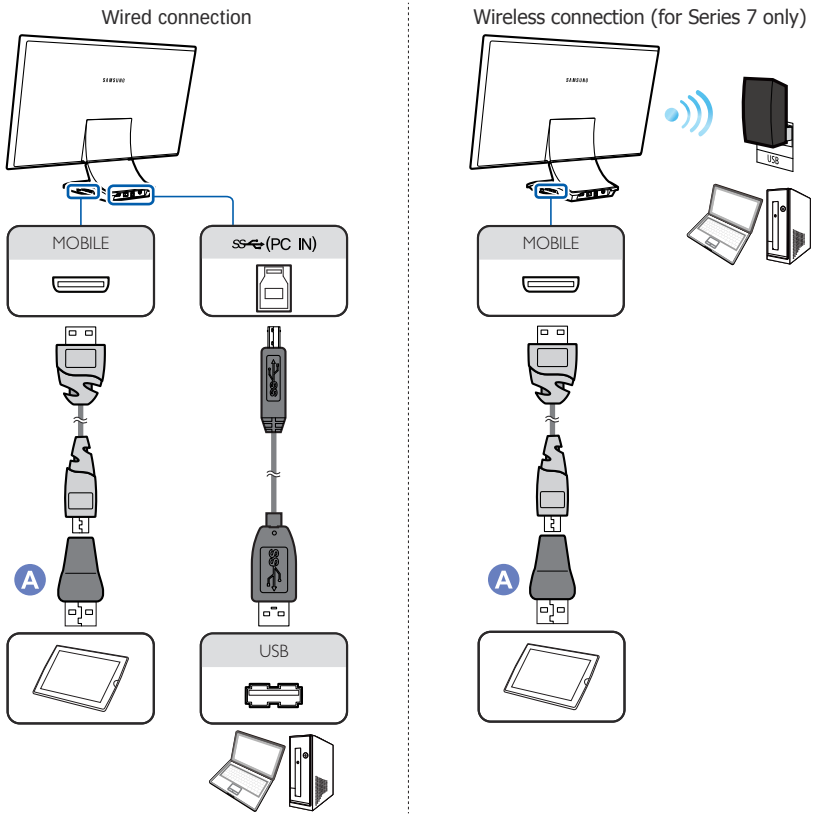
The shortcut keys can be customized.

For details on changing the shortcut keys, refer to **"Changing the Settings"(page 40)**.

Android tablet

* When your mobile device has a normal USB port

Mobile devices should be purchased separately.



A USB Connection Kit (Micro USB to Normal USB)

NOTE

- If your tablet has a Micro USB port, you can use the same connection method as the Android smartphone. Refer to **"Android smartphones"(page 36)**.
- **Charging/Control Mode** is not supported and battery charging is not possible.
- Before connecting to your mobile device, check that the **Mobile Control** icon is found on the far right side of the taskbar.

1. Connect the mobile cable to the USB Connection Kit. Next, connect the tablet to the Smart Station monitor using the connected mobile cable and USB Connection Kit.
2. After the connection is established, **Fast Control Mode** will be set as default. The charging function will not be available.
   * When the USB Connection Kit (Micro USB to Normal USB) is connected, **Fast Control Mode** is the default mode. **Charging/Control Mode** will not be available.
   * To charge your tablet, connect the tablet to a USB port on the Smart Station monitor using the USB cable provided with the tablet.

NOTE

High-speed charging is possible using the [SS 1] port only. This port allows you to charge a mobile device twice as fast compared to when charging using a standard USB port.

3. To move the keyboard and mouse pointer focus to the tablet, press the mouse wheel or the shortcut keys (Alt + S) on the keyboard. The mouse cursor will move to the tablet. You can now use the keyboard and mouse on your tablet.

NOTE

- If the keyboard or mouse input focus is on the mobile device, the PC cannot be controlled using the same input device (keyboard or mouse).
- To move the keyboard and mouse input focus back to the PC, press the center button on the mouse or press the shortcut keys (Alt+S) on the keyboard.

NOTE

The shortcut keys can be customized.

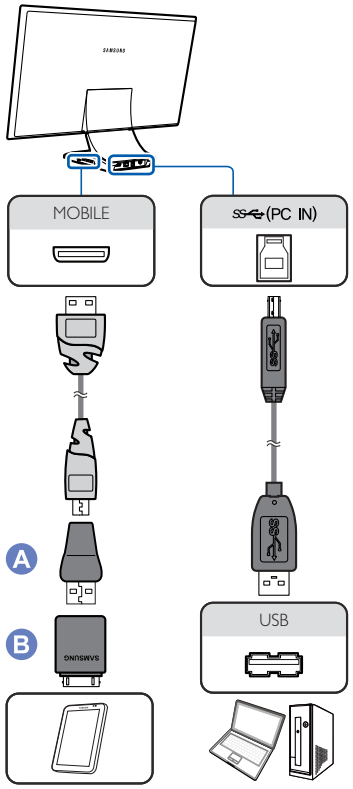
For details on changing the shortcut keys, refer to **"Changing the Settings"(page 40)**.

Galaxy Tab 10.1

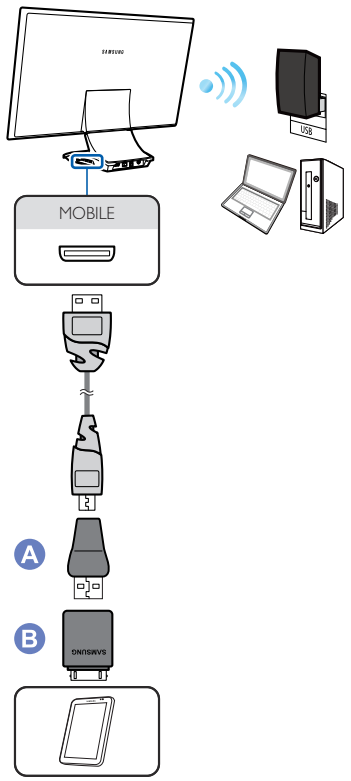
* When your mobile device has a Samsung 30-pin port

- Mobile devices should be purchased separately.
- The 7-inch Galaxy Tab is not supported because it does not have the host function.
- You need a 30pin USB Connection Kit (for Galaxy Tab: USB to 30pin) that is sold separately.

Wired connection



Wireless connection (for Series 7 only)



A USB Connection Kit (Micro USB to Normal USB)
B 30pin USB Connection Kit (for Galaxy Tab: USB to 30pin) - sold separately

NOTE

- **Charging/Control Mode** is not supported and battery charging is not possible.
- Before connecting to your mobile device, check that the **Mobile Control** icon is found on the far right side of the taskbar.

1. Connect the USB Connection Kit (Micro USB to Normal USB) to the mobile cable and 30pin USB Connection Kit (for Galaxy Tab: USB to 30pin). Next, connect the Galaxy Tab to the Smart Station monitor using the connected mobile cable, USB Connection Kit and 30-pin USB connection kit.
2. To move the keyboard and mouse pointer focus to the Galaxy Tab, press the mouse wheel or the shortcut keys (Alt + S) on the keyboard. The mouse cursor will move to the Galaxy Tab. You can now use the keyboard and mouse on your Galaxy Tab.

NOTE

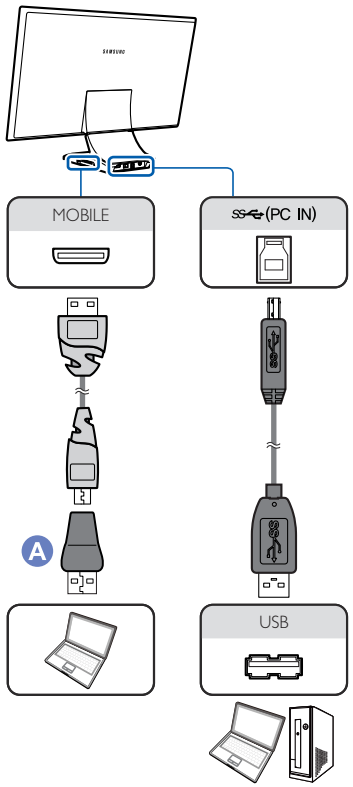
- If the keyboard or mouse input focus is on the mobile device, the PC cannot be controlled using the same input device (keyboard or mouse).
- To move the keyboard and mouse input focus back to the PC, press the center button on the mouse or press the shortcut keys (Alt+S) on the keyboard.

NOTE

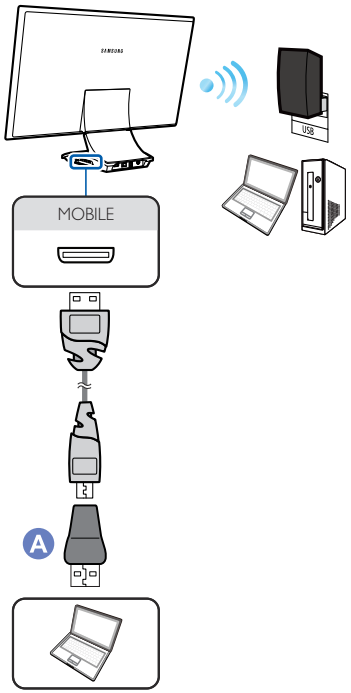
- The shortcut keys can be customized. For details on changing the shortcut keys, refer to **"Changing the Settings"(page 40)**.
- To charge the Galaxy Tab, connect it to the high-speed charging port [SS 1].

Connecting to two PCs

Wired connection



Wireless connection (for Series 7 only)



A USB Connection Kit (Micro USB to Normal USB)

NOTE

- **Charging/Control Mode** is not supported and battery charging is not possible.
- Before connecting to your mobile device, check that the **Mobile Control** icon is found on the far right side of the taskbar.

1. Connect the scanning PC to the Smart Station monitor using the provided USB cable or wireless-connection dongle.
2. Connect the secondary PC to the Smart Station monitor using the mobile cable and USB Connection Kit (Micro USB to Normal USB).
   * A desktop PC cannot be used as a secondary PC.
3. After the connection is established, **Fast Control Mode** will be set as default.
   * When the USB Connection Kit (Micro USB to Normal USB) is connected, **Fast Control Mode** is the default mode. **Charging/Control Mode** will not be available.
4. To move the keyboard and mouse pointer focus from the scanning PC to the secondary PC, move your mouse cursor on the screen of the scanning PC to the screen of the secondary PC. The keyboard and mouse pointer focus will move in the same manner as when using dual displays.

   (Alternatively, press the mouse wheel or the shortcut keys (Alt + S) on the keyboard.)

NOTE

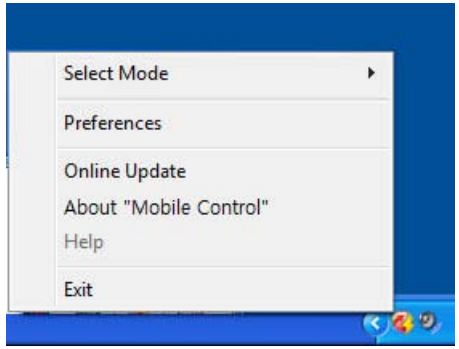
The shortcut keys can be customized.

For details on changing the shortcut keys, refer to **"Changing the Settings"(page 40)**.

Changing the Settings

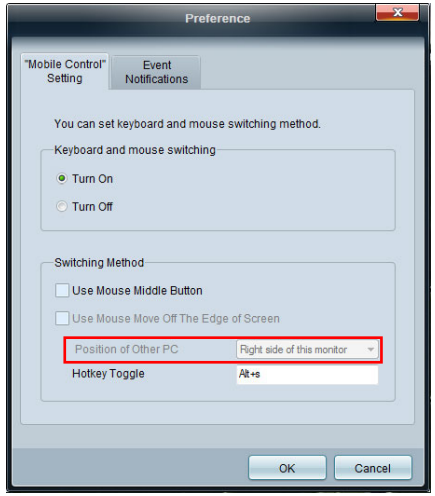
1. Right-click on the **Mobile Control** icon on the far right side of the taskbar.

   The following context menu items will appear.



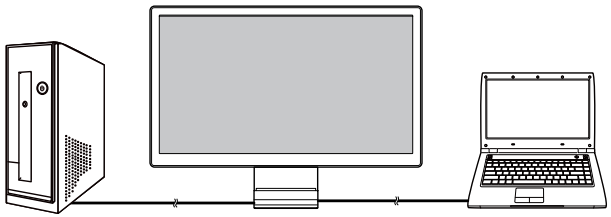
2. Select **Options** from the context menu items.

   You can change the settings as required. You can also customize the shortcut keys.



Changing the position of a PC (Mobile Control)

When connected to two PCs



1. Connect the scanning PC to the Smart Station monitor using the provided USB cable or wireless-connection dongle.
2. Connect the secondary PC to the Smart Station monitor using the mobile cable and USB Connection Kit (Micro USB to Normal USB).

   NOTE

   For details on how to connect to two PCs, refer to the section **"Connecting to two PCs" (page 39)**.

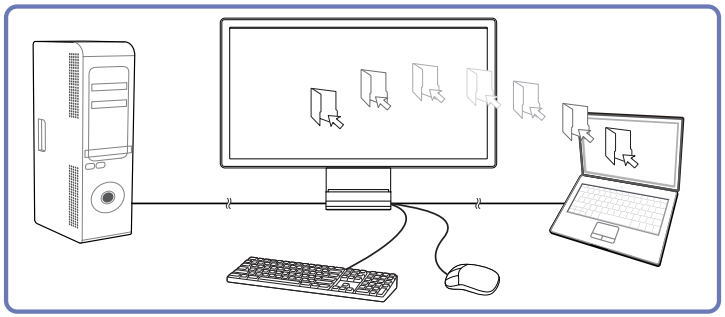
3. After the connection is established, [ ] **Fast Control Mode** will be set as default.
4. If two PCs are connected to the product, the option **Position of Other PC** will be enabled and the position of the secondary PC can be changed.

   NOTE

   - If two PCs are connected to the product, only the primary PC can be used to change the position of the secondary PC.
   - If two PCs are connected to the product, the secondary PC cannot connect to a source device through a USB cable or wireless connection.

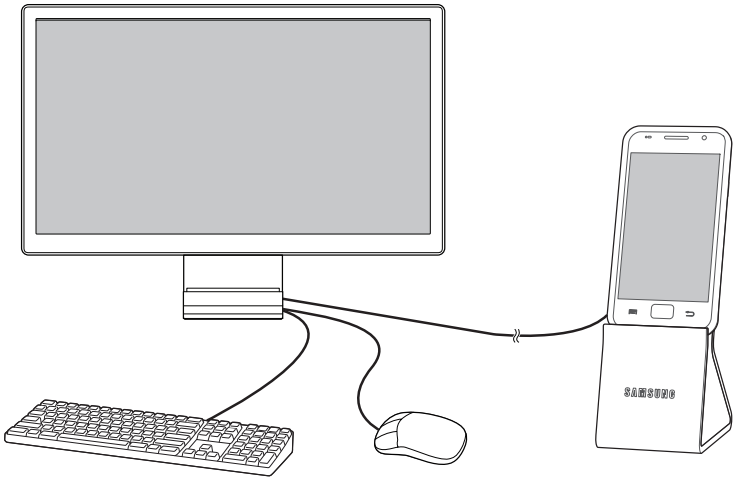
To Transfer files between two PCs(Desktop - Note PC)

Transfer files between two PCs, such as a desktop PC and a notebook PC, conveniently by dragging and dropping the files.



Using the Mobile-device Holder

You can use the mobile-device holder provided in the package when connecting a mobile device to the product.

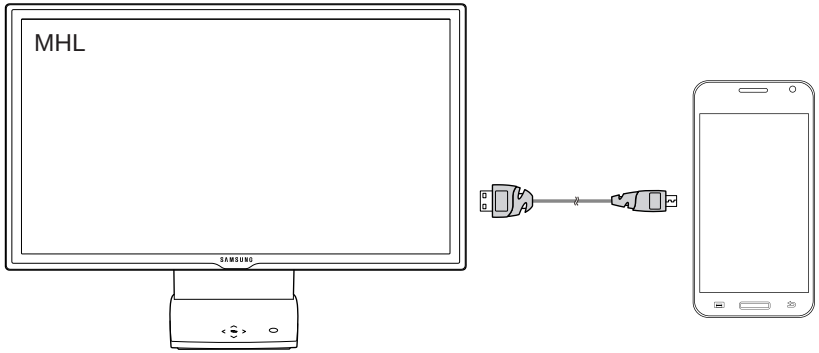


Chapter. 4

Using MHL

MHL (Mobile High-Definition Link)

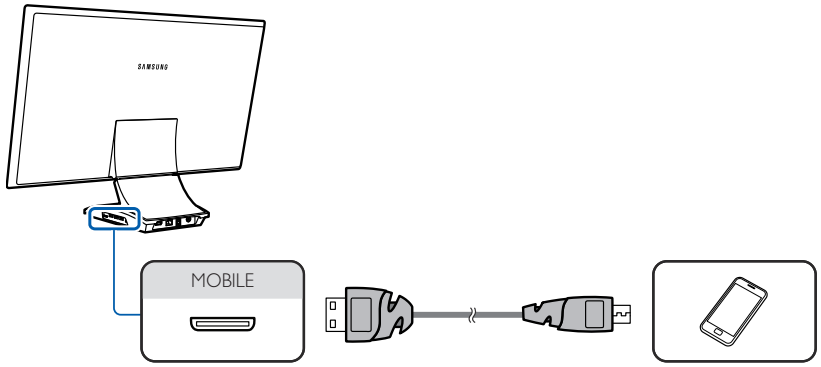
Connect a mobile device that supports MHL to the product and view videos and photos (saved on the device) using the product screen.



NOTE

- To use the MHL function, you need an MHL-certified mobile device. You can check if your mobile device is MHL certified on the website of the device manufacturer. To find a list of MHL-certified devices, visit the official MHL website (http://www.mhlconsortium.org).
- To use the MHL function, the latest version of software must be installed on the mobile device.
- On some mobile devices, the MHL function may not be available depending on the device performance or functionality.
- Since the display size of the product is larger than those of mobile devices, the picture quality may degrade.
- This product is officially MHL-certified. In the event of a problem with a mobile device connection, contact the mobile device manufacturer.
- The picture quality may degrade when content (imported from the mobile device) with a low resolution is displayed on the product.

Using MHL

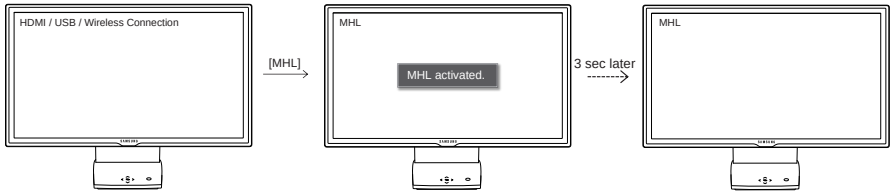


1. Connect the Micro USB port on the mobile device to the MOBILE port on the product using the mobile cable.
2. Connect the DC power adapter to the product and a power socket.
3. After the power is connected, the product will automatically detect and change the input source.
   - Press the [Hub] button and set Select Source to MHL.
   - If the input source is not set to MHL, press the [⇆] button to change the input source.

NOTE

Mobile devices should be purchased separately.

4. If the following message appears, MHL mode is activated. After about 3 seconds, the MHL screen will be displayed.



- Wireless Connection is displayed on Series 7 only.

NOTE

The indicated time "after 3 seconds" may vary depending on the mobile device.

When the mobile device is in power-saving mode

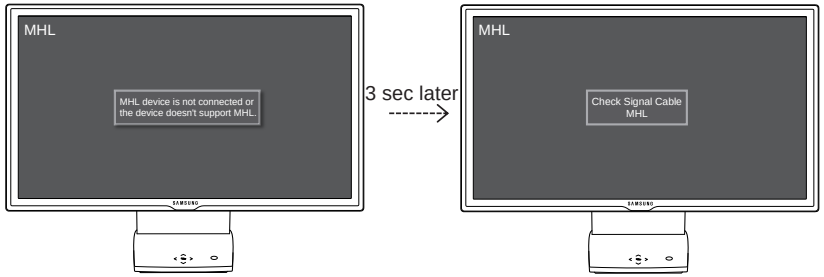
NOTE

When the mobile device is in power-saving mode, the following message will appear in place of the MHL screen. To display the MHL screen, deactivate power-saving mode.

When the mobile device is not connected or does not support MHL

NOTE

- Mobile Control and MHL are not supported at the same time.
- If the mobile device is not connected or the connected mobile device does not support the MHL function, the following screen will appear.
- If MHL mode does not activate, check the connection of the mobile device. If MHL mode does not activate, check if the mobile device supports MHL.
- If MHL mode does not activate even though the mobile device supports MHL, update the firmware on the device to the latest version.



NOTE

The indicated time "after 3 seconds" may vary depending on the mobile device.

Disabling MHL

When the cable is disconnected or the mobile device is powered off

If the mobile cable is disconnected or the mobile device is powered off when MHL is active, the MHL function will be disabled.

NOTE

- If the mobile cable is disconnected, the product will display the message Check Signal Cable and remain in MHL mode.
- The indicated time "after 3 seconds" may vary depending on the mobile device.

Chapter. 5

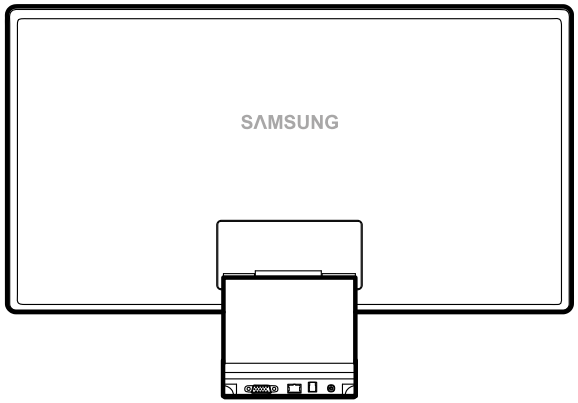
Connecting and Using a Source Device

Checklist before Connecting to Source Devices

Check the following before you connect this product with other devices.

You can connect a camcorder, audio player or DVD player to the product.

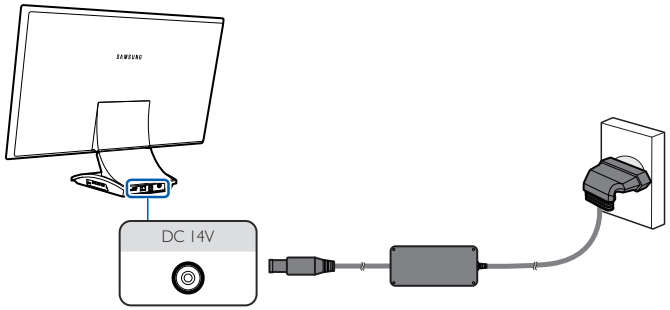
(Note that the optimal performance can be achieved when the resolution of the source device is Full HD 1080p.)



Pre-connection Checkpoints

- Check the available ports on the back of the source device.
- Refer to the user manual for the source device when connecting it to the product. The number and locations of ports can vary depending on the source device.
- Do not connect the power cable until all connections are completed. Connecting the power cable during connection may damage the product.

Connecting the Power



1. Connect the power cable to the DC power adapter. Next, connect the adapter to the product.

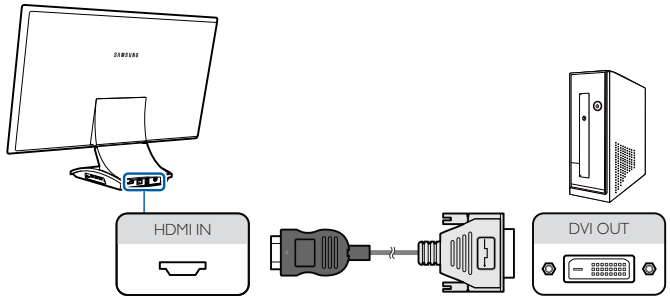
Connecting and Using a PC

Connecting to a PC

Select a connection method suitable for your PC.

- Connecting parts may differ in different products.

Connection Using an HDMI-DVI Cable

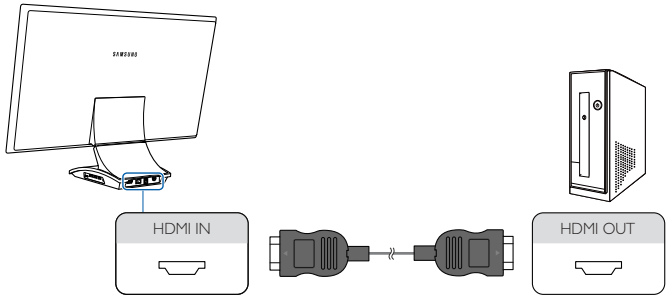


1. Connect the HDMI port on the back of the product to the DVI port on the PC using the HDMI-DVI cable.
2. Connect the DC power adapter to the product and a power socket. Next, turn on the power switch on the PC.
3. Press the [⏎] button on the product to change the input source to HDMI.

NOTE

- Open the SETUP&RESET menu. Next, set PC/AV Mode to PC.
- Audio is not available if the PC and product are connected via the HDMI-DVI port.
- To use the USB Hub and **Mobile Control** functions, you must make a connection as follows.
  - Series 5 users: Connect using only a USB cable.
  - Series 7 users: Connect using a USB cable. Alternatively, connect wirelessly using the wireless-connection dongle.

Connection Using an HDMI Cable (Digital Type)



1. Connect the HDMI port on the back of the product to the HDMI port on the PC using an HDMI cable.
2. Connect the DC power adapter to the product and a power socket. Next, turn on the power switch on the PC.
3. Press the [⏎] button on the product to change the input source to HDMI.

NOTE

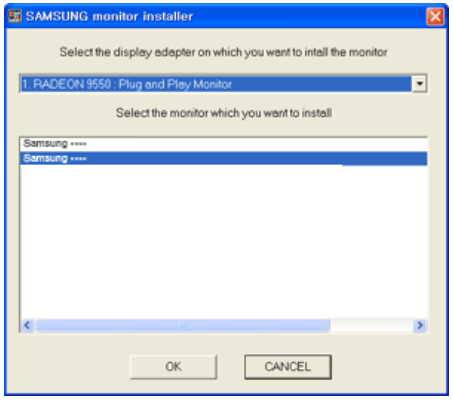
- Open the SETUP&RESET menu. Next, set PC/AV Mode to PC.
- Only Series 7 has an internal speaker.
- You can listen to the sound by connecting an audio output device (headphones, etc.) to the [🎧] port on the product.
- To use the USB Hub and **Mobile Control** functions, you must make a connection as follows.
  - Series 5 users: Connect using only a USB cable.
  - Series 7 users: Connect using a USB cable. Alternatively, connect wirelessly using the wireless-connection dongle.

Driver Installation

NOTE

- You can set the optimum resolution and frequency for this product by installing the corresponding drivers.
- An installation driver is contained on the CD supplied with the product.
- If the provided file is faulty, visit the Samsung Electronics homepage (http://www.samsung.com) and download the file.

1. Insert the user manual CD provided with the product into the CD-ROM drive.
2. Click "Windows Driver."
3. Follow the instructions given on the screen to proceed with installation.
4. Select your product model from the list of models.


SAMSUNG monitor installer
Select the display adapter on which you want to intall the monitor
1. RADEON 9550 : Plug and Play Monitor
Select the monitor which you want to install
Samsung ****
Samsung ****
OK
CANCEL

5. Go to Display Properties and check that the resolution and refresh rate are appropriate. Refer to your Windows OS manual for further details.

PC System Requirements for Using the Product

The Mobile Control product is designed mainly for notebook PC users. It is recommended to use a PC that satisfies the following system requirements.

ITEMS	SPECIFICATIONS
CPU Core	Core2Duo
CPU Speed	2.2 GHZ
OS	XP, WIN7
Graphics driver	Intel, AMD, NVIDIA.
32 bit or 64 bit	Both
RAM	2GB

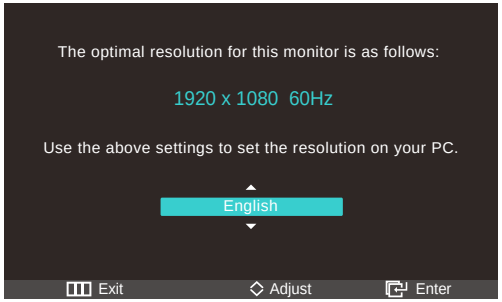
NOTE

- The operating system on your PC can affect the PC's performance for video or game playback.
- It is recommended to use Windows 7 with the **Mobile Control** product.

Setting Optimum Resolution

An information message about setting optimum resolution will appear if you power on the product for the first time after purchase.

Select a language on the product and change the resolution on your PC to the optimum setting.


The optimal resolution for this monitor is as follows:
1920 x 1080 60Hz
Use the above settings to set the resolution on your PC.
English
Exit
Adjust
Enter

1. Press [∧/∨] to move to the language you want and press [⏎].
2. To hide the information message, press [▥].

NOTE

- If the optimal resolution is not selected, the message will appear up to three times for a specified time even after the product is turned off and on again.
- The resolution can also be changed to the optimal setting (1920 x 1080) using Control Panel on your PC.

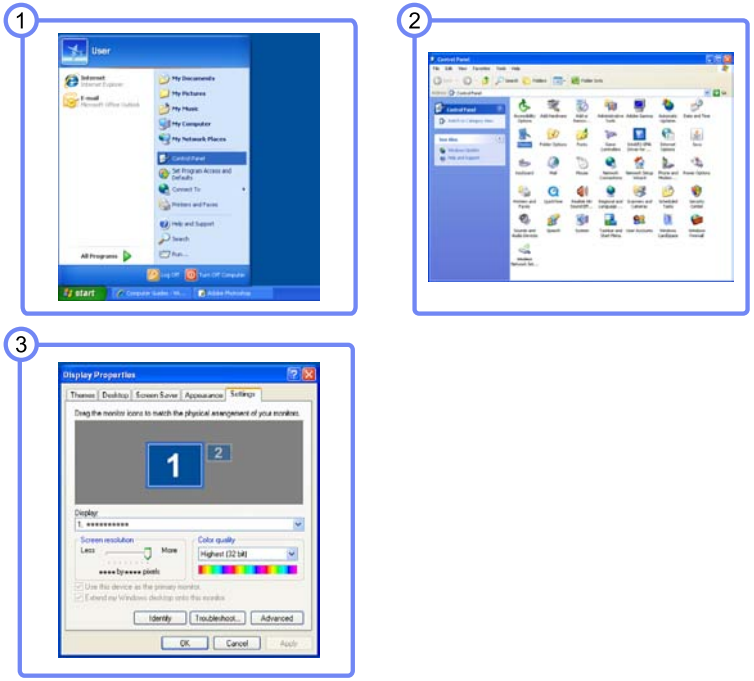
Changing the Resolution Using a PC

NOTE

- Adjust the resolution and refresh rate in Control Panel on your PC to obtain optimum picture quality.
- The picture quality of TFT-LCDs may degrade if the optimum resolution is not selected.

Changing the Resolution on Windows XP

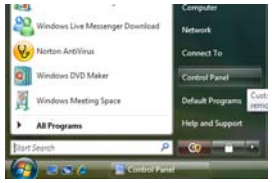
Go to **Control Panel** → **Display** → **Settings** and change the resolution.



Changing the Resolution on Windows Vista

Go to **Control Panel** ⟶ **Personalization** ⟶ **Display Settings** and change the resolution.

1



2

3

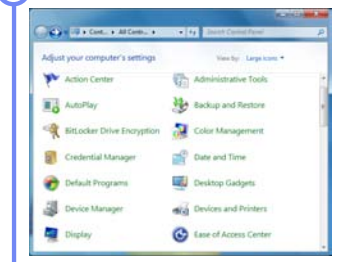
4

Changing the Resolution on Windows 7

Go to **Control Panel** ⟶ **Display** ⟶ **Screen Resolution** and change the resolution.

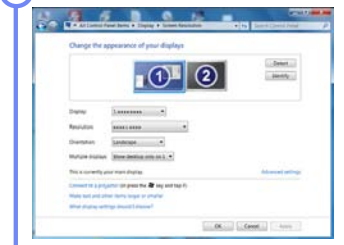
1

2



3

4

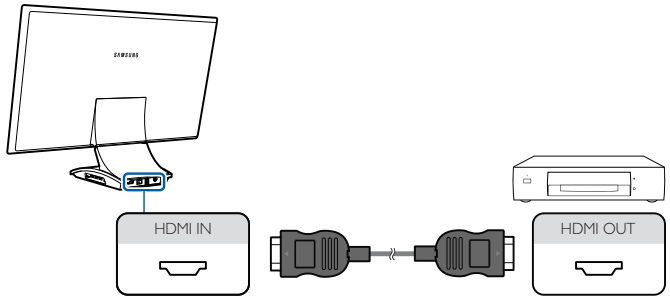


Connecting to a Video Device

The product can be connected to a video device.

Connecting parts may differ in different products.

Connection Using an HDMI Cable

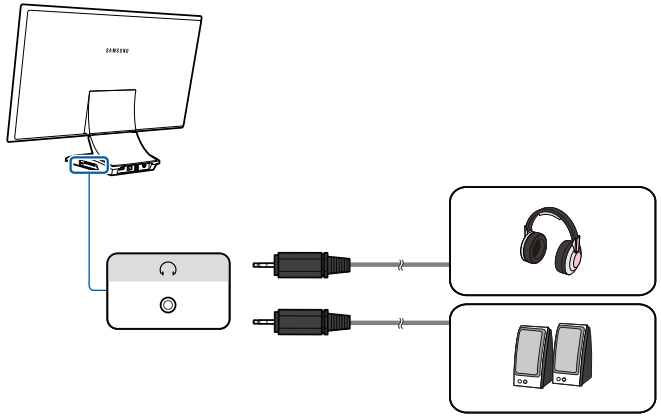


1. Connect an HDMI cable to the HDMI ports on the product and video device.
2. Press the [ ] button on the product to change the input source to HDMI.

NOTE

- Open the SETUP&RESET menu. Next, set PC/AV Mode to AV.
- Only Series 7 has an internal speaker.
- You can listen to the sound by connecting an audio output device (headphones, etc.) to the [ ] port on the product.

Connecting to an Audio Output Device



- Connect an audio output device (headphones, etc.) to the [ ] port on the product.

Chapter. 6

Screen Setup

Configure the screen settings such as brightness and color tone.

MAGIC

You can customize the screen brightness and tint to suit your preferences.

SAMSUNG MAGIC Bright

This menu provides an optimum picture quality suitable for the environment where the product will be used.

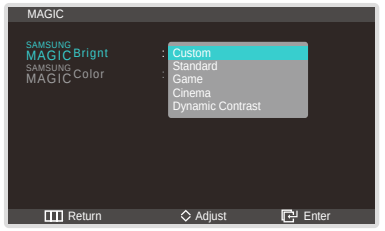
NOTE

The available menu options for SAMSUNG MAGIC Bright vary depending on the PC/AV Mode setting of SETUP&RESET.

Configuring SAMSUNG MAGIC Bright

1. Press [▥] on the product.
2. Move to PICTURE using the [∧/∨] buttons. Next, press the [↵] button.
3. Move to MAGIC using the [∧/∨] buttons. Next, press the [↵] button.
4. Move to SAMSUNG MAGIC Bright using the [∧/∨] buttons. Next, press the [↵] button.
   The following screen will appear.

In PC mode

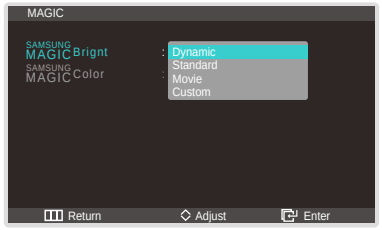


- Custom: Customize the contrast and brightness as desired.
- Standard: Obtain a picture quality suitable for editing documents and using Internet.
- Game: Obtain a picture quality suitable for playing games that involve many graphic effects and dynamic movements.
- Cinema: Obtain the brightness and sharpness of TVs suitable for viewing video and DVD content.
- Dynamic Contrast: Obtain balanced brightness through automatic contrast adjustment.

NOTE

If you change the Brightness or Contrast setting when SAMSUNG MAGIC Bright is set to Standard or Game mode, the current mode will automatically change to Custom mode.

In AV mode



- Dynamic: This mode is suitable when the ambient light is bright.
- Standard: This mode is generally suitable for any environment.
- Movie: This mode reduces eye fatigue.
- Custom: Customize the Contrast and Brightness settings.

NOTE

If you change the Brightness, Contrast or Sharpness setting when SAMSUNG MAGIC Bright is set to Dynamic, Standard or Movie, the current mode will automatically change to Custom mode.

5. Press [∧/∨] to move to the option you want and press [⏎].
6. The selected option will be applied.

SAMSUNG MAGIC Color

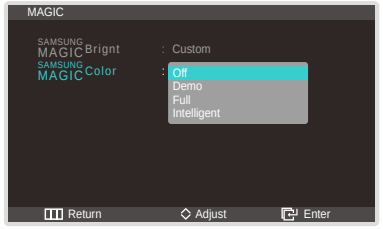
SAMSUNG MAGIC Color is a new picture-quality improvement technology developed independently by Samsung Electronics. It delivers vivid natural colors without picture quality degradation.

NOTE

Not available if SAMSUNG MAGIC Bright is in Cinema or Dynamic Contrast mode.

Configuring SAMSUNG MAGIC Color

1. Press [▥] on the product.
2. Move to PICTURE using the [∧/∨] buttons. Next, press the [⏎] button.
3. Move to MAGIC using the [∧/∨] buttons. Next, press the [⏎] button.
4. Move to SAMSUNG MAGIC Color using the [∧/∨] buttons. Next, press the [⏎] button.
   The following screen will appear.



- Off: Disable the SAMSUNG MAGIC Color function.
- Demo: Compare normal screen mode with SAMSUNG MAGIC Color mode.
- Full: Obtain a vivid picture quality for all areas including skin tones in the picture.
- Intelligent: Improve the chroma for all areas except skin tones in the picture.

5. Press [∧/∨] to move to the option you want and press [⏎].
6. The selected option will be applied.

Brightness

You can adjust the general brightness of the picture. (Range: 0~100)

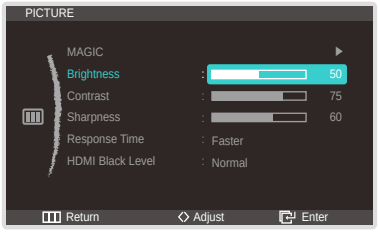
A higher value will make the picture appear brighter.

NOTE

Not available if SAMSUNG MAGICBright is in Dynamic Contrast mode.

Configuring Brightness

1. Press [▥] on the product.
2. Move to PICTURE using the [∧/∨] buttons. Next, press the [↵] button.
3. Move to Brightness using the [∧/∨] buttons. Next, press the [↵] button.
   The following screen will appear.



4. Adjust the Brightness setting using the [</>] buttons.

Contrast

Adjust the contrast between the objects and background. (Range: 0~100)

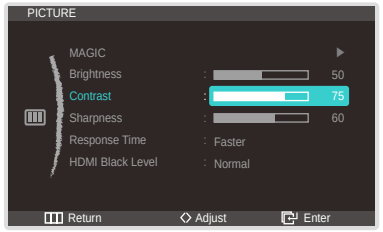
A higher value will increase the contrast to make the object appear clearer.

NOTE

- Not available if SAMSUNG MAGICBright is in Cinema or Dynamic Contrast mode.
- Not available if SAMSUNG MAGICColor is in Full or Intelligent mode.

Configuring Contrast

1. Press [▥] on the product.
2. Move to PICTURE using the [∧/∨] buttons. Next, press the [↵] button.
3. Move to Contrast using the [∧/∨] buttons. Next, press the [↵] button.
   The following screen will appear.



4. Adjust the Contrast setting using the [</>] buttons.

Sharpness

Make the outline of objects more clear or blurry. (Range: 0~100)

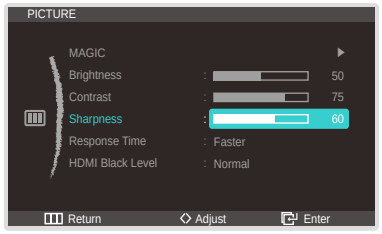
A higher value will make the outline of objects clearer.

NOTE

- Not available if SAMSUNG MAGICBright is in Cinema or Dynamic Contrast mode.
- Not available if SAMSUNG MAGICColor is in Full or Intelligent mode.

Configuring Sharpness

1. Press [▥] on the product.
2. Move to PICTURE using the [∧/∨] buttons. Next, press the [↵] button.
3. Move to Sharpness using the [∧/∨] buttons. Next, press the [↵] button.
   The following screen will appear.



4. Adjust the Sharpness setting using the [</>] buttons.

Response Time

Accelerate the panel response rate to make video appear more vivid and natural.

NOTE

- It is recommended to set the response rate to Normal or Faster when you are not viewing a video.
- The functions available may vary depending on the product model. Refer to the actual product.

Configuring Response Time

1. Press [▥] on the product.
2. Move to PICTURE using the [∧/∨] buttons. Next, press the [↵] button.
3. Move to Response Time using the [∧/∨] buttons. Next, press the [↵] button.
   The following screen will appear.

- Normal - Faster - Fastest

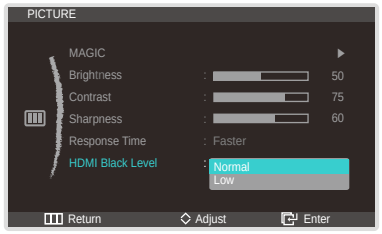
4. Move to the desired option using the [∧/∨] buttons. Next, press the [↵] button.
5. The selected option will be applied.

HDMI Black Level

If you connect a DVD player or set-top box to the product using an HDMI cable, the contrast and color may degrade making the picture look darker. If this is the case, correct the degraded picture quality using the HDMI Black Level menu.

Configuring HDMI Black Level

1. Press [▥] on the product.
2. Move to PICTURE using the [∧/∨] buttons. Next, press the [↵] button.
3. Move to HDMI Black Level using the [∧/∨] buttons. Next, press the [↵] button.
   The following screen will appear.



- Normal: Set the brightness of the darkest parts of the screen to be normal.
- Low: Set the brightness of the darkest parts of the screen to be darker than Normal mode.

4. Press [∧/∨] to move to the option you want and press [↵].
5. The selected option will be applied.

NOTE

- Available only when the product is connected to a source device using an HDMI cable.
- The HDMI Black Level function may not be compatible with some source devices.

Chapter. 7

Configuring the Tint Settings

Adjust the tint of the screen. Information in this chapter is not applicable if SAMSUNG MAGIC Bright is in Cinema or Dynamic Contrast mode.

Red

Adjust the value of the color red in the picture. (Range: 0~100)

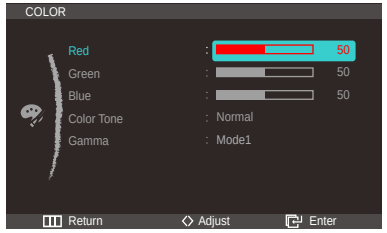
A higher value will increase the intensity of the color.

NOTE

Not available if SAMSUNG MAGIC Color is in Full or Intelligent mode.

Configuring Red

1. Press [▥] on the product.
2. Move to COLOR using the [∧/∨] buttons. Next, press the [↵] button.
3. Move to Red using the [∧/∨] buttons. Next, press the [↵] button.
   The following screen will appear.



4. Adjust the Red setting using the [</>] buttons.

Green

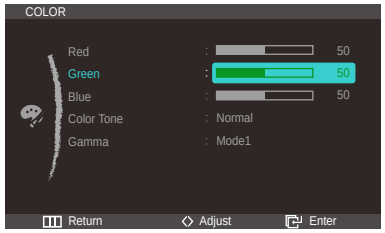
Adjust the value of the color green in the picture. (Range: 0~100)
A higher value will increase the intensity of the color.

NOTE

Not available if SAMSUNG MAGICColor is in Full or Intelligent mode.

Configuring Green

1. Press [▥] on the product.
2. Move to COLOR using the [∧/∨] buttons. Next, press the [↵] button.
3. Move to Green using the [∧/∨] buttons. Next, press the [↵] button.
   The following screen will appear.



4. Adjust the Green setting using the [</>] buttons.

Blue

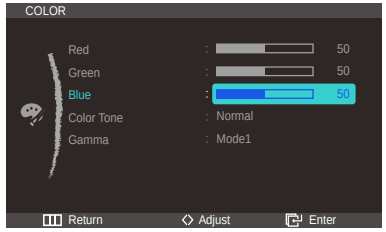
Adjust the value of the color blue in the picture. (Range: 0~100)
A higher value will increase the intensity of the color.

NOTE

Not available if SAMSUNG MAGICColor is in Full or Intelligent mode.

Configuring Blue

1. Press [▥] on the product.
2. Move to COLOR using the [∧/∨] buttons. Next, press the [↵] button.
3. Move to Blue using the [∧/∨] buttons. Next, press the [↵] button.
   The following screen will appear.



4. Adjust the Blue setting using the [</>] buttons.

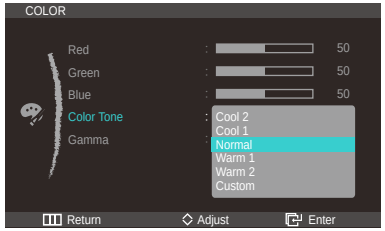
Color Tone

NOTE

Not available if SAMSUNG MAGICColor is in Full or Intelligent mode.

Configuring Color Tone

1. Press [▥] on the product.
2. Move to COLOR using the [∧/∨] buttons. Next, press the [↵] button.
3. Move to Color Tone using the [∧/∨] buttons. Next, press the [↵] button.
   The following screen will appear.



- Cool 2: Set the color temperature to be cooler than Cool 1 mode.
- Cool 1: Set the color temperature to be cooler than Normal mode.
- Normal: Display the standard color tone.
- Warm 1: Set the color temperature to be warmer than Normal mode.
- Warm 2: Set the color temperature to be warmer than Warm1 mode.
- Custom: Customize the color tone.

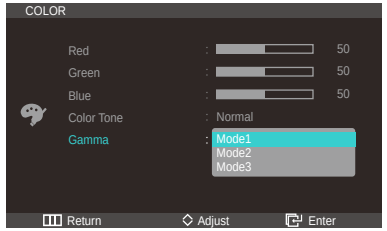
4. Press [∧/∨] to move to the option you want and press [↵].
5. The selected option will be applied.

Gamma

Adjust the mid-range brightness (Gamma) of the picture.

Configuring Gamma

1. Press [▥] on the product.
2. Move to COLOR using the [∧/∨] buttons. Next, press the [↵] button.
3. Move to Gamma using the [∧/∨] buttons. Next, press the [↵] button.
   The following screen will appear.



4. Press [∧/∨] to move to the option you want and press [↵].
5. The selected option will be applied.

Chapter. 8

Resizing or Relocating the Screen

Image Size

Change the picture size.

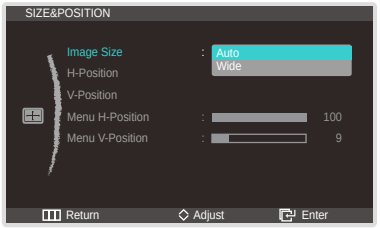
NOTE

The available Image Size menu options depend on the setting of PC/AV Mode under SETUP&RESET.

Configuring Image Size

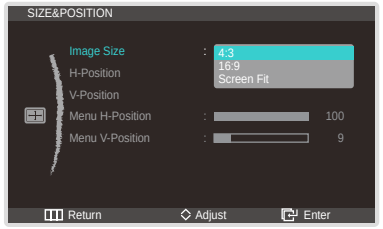
1. Press [▥] on the product.
2. Move to SIZE&POSITION using the [∧/∨] buttons. Next, press the [↵] button.
3. Move to Image Size using the [∧/∨] buttons. Next, press the [↵] button.
   The following screen will appear.

In PC mode



- Auto: Display the picture according to the aspect ratio of the input source.
- Wide: Stretch the picture to full screen regardless of the aspect ratio of the input source.

In AV mode



- 4:3 : This mode is suitable to view the 4:3 aspect ratio picture of video content or standard broadcasts.
- 16:9 : This mode is suitable to view the 16:9 aspect ratio picture of DVD content or widescreen broadcasts.
- Screen Fit: This mode displays input without truncating the original picture.

NOTE

- PC/AV Mode is available in HDMI mode only.
- Adjusting the H-Position and V-Position settings is possible if Image Size is set to Screen Fit.

4. Press [∧/∨] to move to the option you want and press [↵].
5. The selected option will be applied.

H-Position

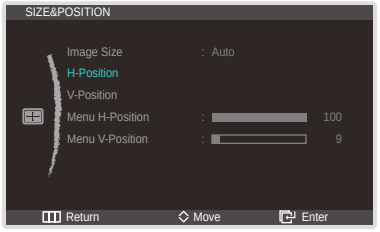
Move the screen to the left or right.

NOTE

- Available only when PC/AV Mode is set to AV.
- PC/AV Mode is available in HDMI mode only.

Configuring H-Position

1. Press [▥] on the product.
2. Move to SIZE&POSITION using the [∧/∨] buttons. Next, press the [⏎] button.
3. Move to H-Position using the [∧/∨] buttons. Next, press the [⏎] button.
   The following screen will appear.



- Adjusting the H-Position and V-Position settings is possible if Image Size is set to Screen Fit.

4. Adjust the H-Position setting using the [</>] buttons.

V-Position

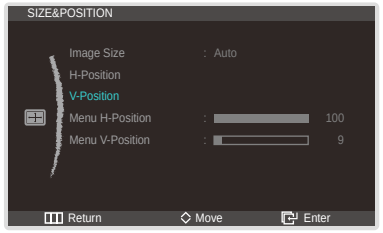
Move the screen up or down.

NOTE

- Available only when PC/AV Mode is set to AV.
- PC/AV Mode is available in HDMI mode only.

Configuring V-Position

1. Press [▥] on the product.
2. Move to SIZE&POSITION using the [∧/∨] buttons. Next, press the [⏎] button.
3. Move to V-Position using the [∧/∨] buttons. Next, press the [⏎] button.
   The following screen will appear.



- Adjusting the H-Position and V-Position settings is possible if Image Size is set to Screen Fit.

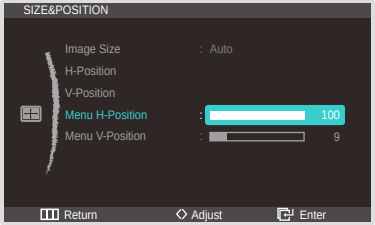
4. Adjust the V-Position setting using the [</>] buttons.

Menu H-Position

Move the menu position to the left or right.

Configuring Menu H-Position

1. Press [▥] on the product.
2. Move to SIZE&POSITION using the [∧/∨] buttons. Next, press the [↵] button.
3. Move to Menu H-Position using the [∧/∨] buttons. Next, press the [↵] button.
   The following screen will appear.



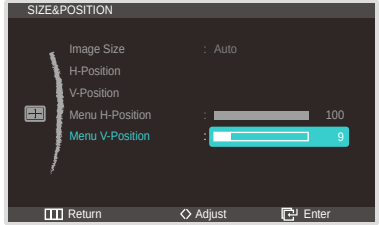
4. Adjust the Menu H-Position setting using the [</>] buttons.

Menu V-Position

Move the menu position up or down.

Configuring Menu V-Position

1. Press [▥] on the product.
2. Move to SIZE&POSITION using the [∧/∨] buttons. Next, press the [↵] button.
3. Move to Menu V-Position using the [∧/∨] buttons. Next, press the [↵] button.
   The following screen will appear.



4. Adjust the Menu V-Position setting using the [</>] buttons.

Chapter. 9

Setup and Reset

HUB

Configure the settings to use the HUB function on the product.

NOTE

To open the HUB menu screen, press the [Hub] button on the stand.

Auto Wireless Detection - for Series 7 only

If a PC connects to the product via the wireless-connection dongle, the product will automatically detect the wireless connection and change the input source to Wireless Connection mode.

Enabling/disabling Auto Wireless Detection

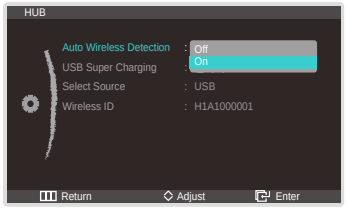
1. Press [▥] on the product.
2. Move to SETUP&RESET using the [∧/∨] buttons. Next, press the [⏎] button.
3. Move to HUB using the [∧/∨] buttons. Next, press the [⏎] button.

NOTE

To open the OSD menu where you can adjust the HUB settings, press the [Hub] button on the stand.

4. Move to Auto Wireless Detection using the [∧/∨] buttons. Next, press the [⏎] button.
   The following screen will appear.

Series 7



- Off: Disable Auto Wireless Detection.
- On: Automatically change the input source to Wireless Connection mode if a wireless connection is detected by the product.

5. Press [∧/∨] to move to the option you want and press [⏎].
6. The selected option will be applied.

NOTE

Auto Wireless Detection is supported on Series 7 only.

USB Super Charging

Charge the battery of a connected source device quickly using the blue USB 3.0 port on the product.

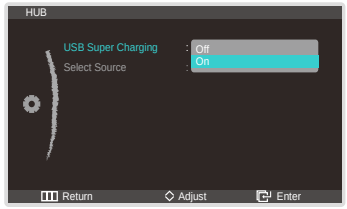
NOTE

- Setting USB Super Charging to On during a data transfer will stop the data transfer. If you set USB Super Charging to Off, the standard charging and data transfer feature will be available.
  When USB Super Charging is disabled, the USB connection indicator icon [ψ] will not be shown on the mobile device display. This does not mean that the mobile device is disconnected.
- The input source does not need to be changed.
- High-speed charging is possible using the [SS 1] port only. This port allows you to charge a mobile device twice as fast compared to when charging using a standard USB port.

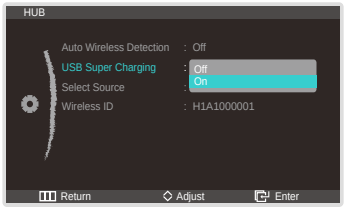
Enabling/disabling USB Super Charging

1. Press [▥] on the product.
2. Move to SETUP&RESET using the [∧/∨] buttons. Next, press the [⏎] button.
3. Move to HUB using the [∧/∨] buttons. Next, press the [⏎] button.
4. Move to USB Super Charging using the [∧/∨] buttons. Next, press the [⏎] button.
   The following screen will appear.

Series 5



Series 7



- Off: Disable USB Super Charging.
- On: Enable the function to quickly charge a source device connected to the blue USB 3.0 port.

5. Press [∧/∨] to move to the option you want and press [⏎].
6. The selected option will be applied.

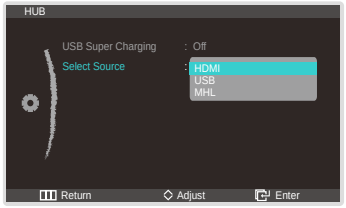
Select Source

Select the input source that will be displayed on the product.

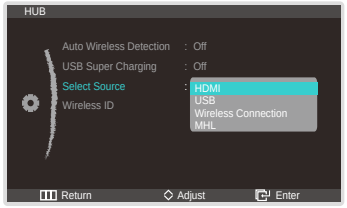
Changing the input source using Select Source

1. Press [▥] on the product.
2. Move to SETUP&RESET using the [∧/∨] buttons. Next, press the [⏎] button.
3. Move to HUB using the [∧/∨] buttons. Next, press the [⏎] button.
4. Move to Select Source using the [∧/∨] buttons. Next, press the [⏎] button.
   The following screen will appear.

Series 5



Series 7



- HDMI: Change the input source to HDMI mode.
- USB: Change the input source to USB mode.
- Wireless Connection: Change the input source to Wireless Connection mode.
- MHL: Change the input source to MHL mode.

5. Press [∧/∨] to move to the option you want and press [⏎].
6. The selected option will be applied.

NOTE

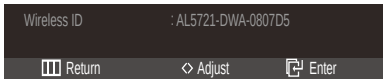
Wireless Connection is supported on Series 7 only.

Wireless ID - for Series 7 only

Wireless ID refers to a unique ID assigned to each product. The **Wireless Connection Manager** program identifies products within an effective range by detecting this unique ID of each product. The wireless ID is displayed at the bottom of the HUB menu screen and in the **Wireless Connection Manager** program.

Viewing the Wireless ID

1. Press [▥] on the product.
2. Move to SETUP&RESET using the [∧/∨] buttons. Next, press the [⏎] button.
3. Move to HUB using the [∧/∨] buttons. Next, press the [⏎] button.
4. Move to Wireless ID using the [∧/∨] buttons. Next, press the [⏎] button.



5. The Wireless ID will appear.

NOTE

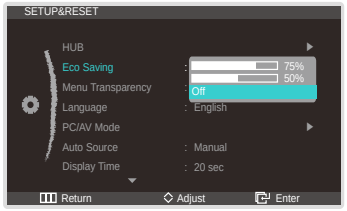
Wireless ID is supported on Series 7 only.

Eco Saving

Adjust the power consumption of the product to save energy.

Configuring Eco Saving

1. Press [▥] on the product.
2. Move to SETUP&RESET using the [∧/∨] buttons. Next, press the [⏎] button.
3. Move to Eco Saving using the [∧/∨] buttons. Next, press the [⏎] button.
   The following screen will appear.



- 75% : Reduce the power consumption of the product to 75%.
- 50% : Reduce the power consumption of the product to 50%.
- Off: Disable Eco Saving.

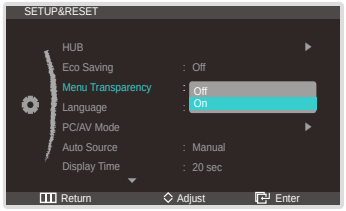
4. Press [∧/∨] to move to the option you want and press [⏎].
5. The selected option will be applied.

Menu Transparency

Configure the transparency for the menu windows.

Configuring Menu Transparency

1. Press [▥] on the product.
2. Move to SETUP&RESET using the [∧/∨] buttons. Next, press the [↵] button.
3. Move to Menu Transparency using the [∧/∨] buttons. Next, press the [↵] button.
   The following screen will appear.



4. Press [∧/∨] to move to the option you want and press [↵].
5. The selected option will be applied.

Language

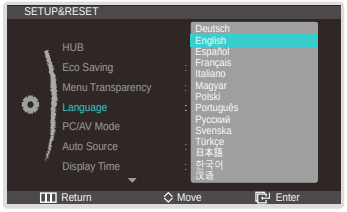
Set the menu language.

NOTE

- A change to the language setting will only be applied to the onscreen menu display.
- It will not be applied to other functions on your PC.

Configuring Language

1. Press [▥] on the product.
2. Move to SETUP&RESET using the [∧/∨] buttons. Next, press the [↵] button.
3. Move to Language using the [∧/∨] buttons. Next, press the [↵] button.
   The following screen will appear.



4. Press [∧/∨] to move to the option you want and press [↵].
5. The selected option will be applied.

PC/AV Mode

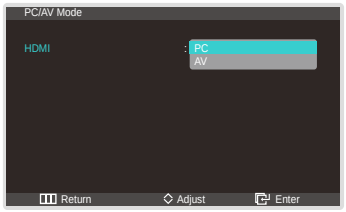
Set PC/AV Mode to AV. The size of the image displayed on the screen will be enlarged. This option is useful when viewing a movie.

NOTE

PC/AV Mode is available in HDMI mode only.

Configuring PC/AV Mode

1. Press [▥] on the product.
2. Move to SETUP&RESET using the [∧/∨] buttons. Next, press the [↵] button.
3. Move to PC/AV Mode using the [∧/∨] buttons. Next, press the [↵] button.
   The following screen will appear.



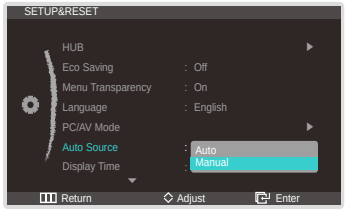
4. Press [∧/∨] to move to the option you want and press [↵].
5. The selected option will be applied.

Auto Source

Enable/disable Auto Source mode that detects the input source automatically.

Configuring Auto Source

1. Press [▥] on the product.
2. Move to SETUP&RESET using the [∧/∨] buttons. Next, press the [↵] button.
3. Move to Auto Source using the [∧/∨] buttons. Next, press the [↵] button.
   The following screen will appear.



- Auto: Automatically detect the input source.
- Manual: Manually select an input source.

4. Press [∧/∨] to move to the option you want and press [↵].
5. The selected option will be applied.

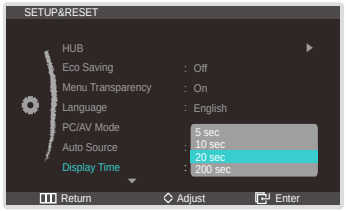
Display Time

Set the on-screen display (OSD) menu to automatically disappear if the menu is not used for a specified period of time.

Display Time can be used to set the time after which you want the OSD menu to disappear automatically.

Configuring Display Time

1. Press [▥] on the product.
2. Move to SETUP&RESET using the [∧/∨] buttons. Next, press the [↵] button.
3. Move to Display Time using the [∧/∨] buttons. Next, press the [↵] button.
   The following screen will appear.



- 5 sec - 10 sec - 20 sec - 200 sec

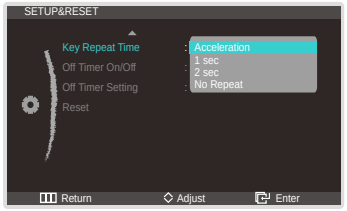
4. Move to the desired option using the [∧/∨] buttons. Next, press the [↵] button.
5. The selected option will be applied.

Key Repeat Time

Control the response rate of a button when the button is pressed.

Configuring Key Repeat Time

1. Press [▥] on the product.
2. Move to SETUP&RESET using the [∧/∨] buttons. Next, press the [↵] button.
3. Move to Key Repeat Time using the [∧/∨] buttons. Next, press the [↵] button.
   The following screen will appear.



- The available options include Acceleration, 1 sec, and 2 sec. If No Repeat is selected, a button will respond only when it is pressed.

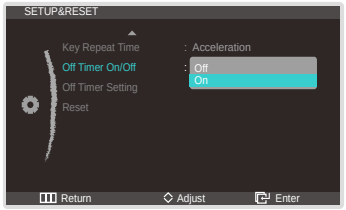
4. Press [∧/∨] to move to the option you want and press [↵].
5. The selected option will be applied.

Off Timer On/Off

You can set the product to automatically turn off.

Configuring Off Timer On/Off

1. Press [▥] on the product.
2. Move to SETUP&RESET using the [∧/∨] buttons. Next, press the [↵] button.
3. Move to Off Timer On/Off using the [∧/∨] buttons. Next, press the [↵] button.
   The following screen will appear.



- Off: Deactivate the off timer so that the product does not power off automatically.
- On: Activate the off timer so that the product powers off automatically.

4. Press [∧/∨] to move to the option you want and press [↵].
5. The selected option will be applied.

Off Timer Setting

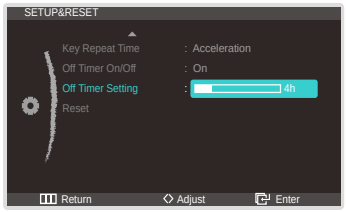
The off timer can be set within a range of 1 to 23 hours. The product will automatically power off after the specified number of hours.

NOTE

Available only when Off Timer On/Off is set to On.

Configuring Off Timer Setting

1. Press [▥] on the product.
2. Move to SETUP&RESET using the [∧/∨] buttons. Next, press the [↵] button.
3. Move to Off Timer Setting using the [∧/∨] buttons. Next, press the [↵] button.
   The following screen will appear.



4. Configure the Off Timer Setting [</>] buttons.

NOTE

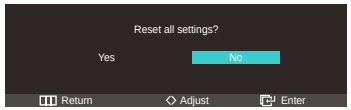
For products for the market in Europe, the Off Timer On/Off is set to automatically activate 4 hours after the product powers on. This is done in accordance with power supply regulations. If you do not want the timer to activate, go to **MENU** ⟶ SETUP&RESET and set Off Timer On/Off to Off.

Reset

Return all the settings for the product to the default factory settings.

Restoring the default settings (Reset)

1. Press [▥] on the product.
2. Move to SETUP&RESET using the [∧/∨] buttons. Next, press the [↵] button.
3. Move to Reset using the [∧/∨] buttons. Next, press the [↵] button.
   The following screen will appear.



4. Press [</>] to move to the option you want and press [↵].
5. The selected option will be applied.

Chapter. 10

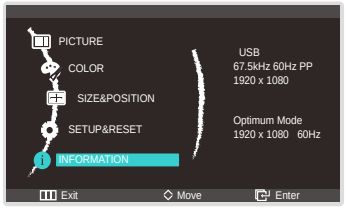
INFORMATION Menu and Others

INFORMATION

View the current input source, frequency and resolution.

Viewing information (INFORMATION)

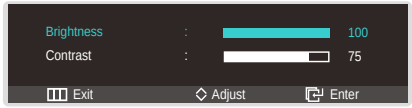
1. Press [⊞] on the product.
2. Move to INFORMATION using the [∧/∨] buttons. The current input source, frequency and resolution will appear.



Configuring Brightness and Contrast in the Initial Screen

Adjust the Brightness or Contrast setting using the [∧/∨] buttons in the initial screen (where no OSD menu is displayed).

1. Press [∧/∨] when the initial screen is displayed. The following screen will appear.



2. Press the [⏎] button to alternate between the Brightness and Contrast settings.
3. Adjust the Brightness or Contrast setting using the [∧/∨] buttons.

Configuring Volume in the Initial Screen

Adjust the Volume setting using the [</>] buttons in the initial screen (where no OSD menu is displayed).

1. Press [</>] when the initial screen is displayed. The following screen will appear.

2. Adjust the Volume setting using the [</>] buttons.

NOTE

The speaker function is available on Series 7 only. To listen to the sound on Series 5, connect an audio output device (headphones, etc.).

Configuring HUB in the Initial Screen

Press the [Hub] button on the stand when no OSD menu is displayed. The HUB menu window will be displayed.

1. Press [Hub] when the initial screen is displayed.

   You can change the Auto Wireless Detection, USB Super Charging and Select Source settings or view the Wireless ID.

2. Configure the settings as required using the [∧/∨] buttons.

NOTE

- Refer to "HUB" for further details on how to use the HUB function.
- The Auto Wireless Detection and Wireless ID functions are supported on Series 7 only.

Chapter. 11

Troubleshooting Guide

Requirements Before Contacting Samsung Customer Service Center

Before calling Samsung Customer Service Center, test your product as follows.
If the problem persists, contact Samsung Customer Service Center.

Testing the Product

Check if your product is operating normally by using the product test function.

If the screen is turned off and the power indicator blinks even though the product is properly connected to a PC, perform a self-diagnosis test.

1. Power off both the PC and product.
2. Disconnect the cables from the product.
3. Power on the product.
4. If the message "Check Signal Cable" appears, the product is working normally.

NOTE

If the screen remains blank, check the PC system, video controller and cable.

Checking the Resolution and Frequency

When a mode exceeds the supported resolution (refer to "Standard Signal Mode Table"), the message "Not Optimum Mode" will appear briefly.

Check the following.

Installation issue (PC mode)

TROUBLESHOOTING	SOLUTIONS
The screen keeps switching on and off.	Check that the cables are properly connected between the product and PC and that the connectors are firmly locked.

Screen issue

TROUBLESHOOTING	SOLUTIONS
The power LED is off. The screen will not switch on.	Make sure that the power cable is connected.
The message "Check Signal Cable" appears.	Check that the cable is properly connected to the product.
	Check that the device connected to the product is powered on.

TROUBLESHOOTING	SOLUTIONS
The message "Not Optimum Mode. " appears on the screen.	This message appears if the signal from the graphics card exceeds the maximum resolution or frequency for the product.
	Set the maximum resolution and frequency according to the product specifications referring to the Standard Signal Mode Table.
The images on the screen look distorted.	Check the cable connection to the product
The screen is not clear. The screen is blurry.	Remove components (video cable, etc.) and try again.
	Set the resolution and frequency to the recommended level.
The screen appears unstable and shaky.	Check that the resolution and frequency of the PC and graphics card are set within a range compatible with the product. Then, change the screen settings if required by referring to the additional information on the product menu.
There are shadows or ghost images left on the screen.	
The screen is too bright. The screen is too dark.	Adjust the Brightness setting.
Screen color is inconsistent.	Adjust the COLOR settings.
The colors on the screen have a shadow and are distorted.	Adjust the COLOR settings.
White does not really look white.	Adjust the COLOR settings.
There is no image on the screen and the power LED blinks every 0.5 to 1 second.	The product is operating in power-saving mode.
	Press any key on the keyboard or move the mouse to return to normal operating mode.

Audio issues

* The integrated speaker is provided on Series 7 only.

TROUBLESHOOTING	SOLUTIONS
There is no sound.	Check the connection of the stereo cable or adjust the volume.
	Check that the source device connected to the product is powered on.
The volume is too low.	Adjust the volume.
	If the volume is still low after turning it up to the maximum level, adjust the volume on your PC sound card or software program.

Source device issue

TROUBLESHOOTING	SOLUTIONS
A beeping sound is heard continuously when my PC is booting.	Have your PC serviced if it makes a beeping sound when booting.

Other issues

TROUBLESHOOTING	SOLUTIONS
The stand generates heat. Why is that? Does this mean that the product is defective?	The upper part of the stand may become slightly hot at room temperature. This occurs as the heat inside the stand releases naturally. The intensity of heat you feel can vary depending on whether the room is sealed or depending on the surrounding temperature. This does not indicate a defect. You can use the product without worry. It is recommended to use the product in a location that offers good ventilation at the back of the monitor stand.

Troubleshooting Guide

The Wireless Connection screen - for Series 7 only

The screen is blank although Wireless Connection is activated.	
Symptom: Wireless Connection does not work although the product is powered on.	
1. Press the [⇄] button on the product to check the input source.	Press the [⇄] button to check that the input source is set to Wireless Connection. If the input source is not set to Wireless Connection, press the [⇄] button to configure the input source.
2. Check the connection of the wireless-connection dongle.	Check that the dongle is properly connected. Run **Wireless Connection Manager**. Next, press the shortcut keys (Ctrl+P+Q) to check that **Host Enabled** is displayed at the bottom left.
3. Check the connection of the product.	Run **Wireless Connection Manager** to check if the product is found in the list of monitors. If the product is found, select **Connect** and check if it is connected.
4. Check the driver and update status.	If Wireless Connection does not work properly, update the driver to the latest version from www.samsung.com.

USB screen

The USB screen is not displayed.	
Symptom: The screen is blank although the power is turned on and the cables are connected.	
1. Press the [⇄] button on the product to check the input source.	Press the [⇄] button to check that the input source is set to USB. If the input source is not set to USB, press the [⇄] button to configure the input source.
2. Check the cable connection.	Check that the USB cable is properly connected to the product and PC.

Mobile Control and MHL

Should the PC be turned on in order to use **Mobile Control**?	The **Mobile Control** feature allows sharing of a keyboard, mouse and files between a PC and mobile device. Use of **Mobile Control** is not possible if your PC is turned off.

What are the different kinds of mobile devices that are compatible with **Mobile Control**?	Most of the devices that provide the host function are compatible with **Mobile Control**. Compatible devices include PCs that support the Windows operating system and Samsung Galaxy S2 series and later. To find whether your device supports the host function, contact the manufacturer. **NOTE** • **Mobile Control** supports the keyboard and mouse function for mobile devices allowing the product to interact with a connected mobile device. • For some mobile devices, only a single function (keyboard function, etc.) from a range of functions of **Mobile Control** may be available. To find whether your device supports the keyboard and mouse functions, contact the manufacturer. • **Mobile Control** supports only mobile devices that have the USB Host function. Support for this feature depends on the specifications of your mobile device. • Galaxy S2 is supported. Galaxy S2 from Sprint (available in the US market) is not supported because it does not have the USB Host function.
Can I use a standard USB cable instead of the one provided in the package when using **Mobile Control**?	**Mobile Control** activates the host function on a mobile device and shares data between devices. To use **Mobile Control** properly, you must use the provided mobile cable to connect your mobile device to the MOBILE port. If using a standard USB cable, the **Mobile Control** function will not be available.
Can I use MHL and **Mobile Control** at the same time?	Due to the structure of mobile devices, the Micro USB port cannot transmit both the USB data and MHL signal at the same time.

Q & A

QUESTION	ANSWER
How can I change the frequency?	Set the frequency on your graphics card. • Windows XP: Go to **Control Panel** ⟶ **Appearance and Themes** ⟶ **Display** ⟶ **Settings** ⟶ **Advanced** ⟶ **Monitor**, and adjust **Refresh rate** under **Monitor settings**. • Windows ME/2000: Go to **Control Panel** ⟶ **Display** ⟶ **Settings** ⟶ **Advanced** ⟶ **Monitor**, and adjust **Refresh rate** under **Monitor settings**. • Windows Vista: Go to **Control Panel** ⟶ **Appearance and Personalization** ⟶ **Personalization** ⟶ **Display Settings** ⟶ **Advanced Settings** ⟶ **Monitor**, and adjust **Refresh rate** under **Monitor settings**. • Windows 7: Go to **Control Panel** ⟶ **Appearance and Personalization** ⟶ **Display** ⟶ **Screen Resolution** ⟶ **Advanced settings** ⟶ **Monitor**, and adjust **Refresh rate** under **Monitor settings**.
How can I change the resolution?	• Windows XP: Go to **Control Panel** ⟶ **Appearance and Themes** ⟶ **Display** ⟶ **Settings**, and adjust the resolution. • Windows ME/2000: Go to **Control Panel** ⟶ **Display** ⟶ **Settings**, and adjust the resolution. • Windows Vista: Go to **Control Panel** ⟶ **Appearance and Personalization** ⟶ **Personalize** ⟶ **Display Settings**, and adjust the resolution. • Windows 7: Go to **Control Panel** ⟶ **Appearance and Personalization** ⟶ **Display** ⟶ **Adjust Resolution**, and adjust the resolution.

QUESTION	ANSWER
How do I set power-saving mode?	• Windows XP: Set power-saving mode in **Control Panel** ⟶ **Appearance and Themes** ⟶ **Display** ⟶ **Screen Saver Settings** or BIOS SETUP on the PC. • Windows ME/2000: Set power-saving mode in **Control Panel** ⟶ **Display** ⟶ **Screen Saver Settings** or BIOS SETUP on the PC. • Windows Vista: Set power-saving mode in **Control Panel** ⟶ **Appearance and Personalization** ⟶ **Personalize** ⟶ **Screen Saver Settings** or BIOS SETUP on the PC. • Windows 7: Set power-saving mode in **Control Panel** ⟶ **Appearance and Personalization** ⟶ **Personalize** ⟶ **Screen Saver Settings** or BIOS SETUP on the PC.

NOTE

Refer to the user manual for your PC or graphics card for further instructions on adjustment.

Chapter. 12

Specifications

General

Model Name		C24B550U	C24B750X	C27B750X
Panel	Size	24 inches (61 cm)	24 inches (61 cm)	27 inches (69 cm)
	Display area	531.36 mm (H) x 298.89 mm (V) / 20.9 inches (H) x 11.8 inches (V)	531.36 mm (H) x 298.89 mm (V) / 20.9 inches (H) x 11.8 inches (V)	597.6 mm (H) x 336.15 mm (V) / 23.5 inches (H) x 13.2 inches (V)
Synchronization	Horizontal Frequency	30 ~ 81 kHz		
	Vertical Frequency	49 ~ 75 Hz		
Display Color		16.7M (RGB 8-bit)		
Resolution	Optimum Resolution	1920 x 1080		
	Maximum Resolution	1920 x 1080		
Maximum Pixel Clock		165 MHz (Digital, USB)		
Power Supply		This product uses 100 to 240V. Refer to the label at the back of the product as the standard voltage can vary in different countries.		

Ports	Side	Mobile connect (20p), 3.0 USB downstream (Super charging available), 3.0 USB downstream, 2.0 USB Downstream, Headphone out.		
	Rear View	DC Jack, USB 3.0 upstream, LAN Jack, HDMI		
HDMI input resolution		1920 x 1080		
Dimensions (W x H x D) / Weight		572.8 x 427.3 x 232.9 mm (22.6 x 16.9 x 9.2 inches) / 4.1 kg (9.0 Ibs)	572.8 x 427.3 x 232.9 mm (22.6 x 16.9 x 9.2 inches) / 4.1 kg (9.0 Ibs)	646.7 x 472.3 x 232.9 mm (25.5 x 18.6 x 9.2 inches) / 5.0 kg (11.0 Ibs)
Environmental conditions	Operating	Temperature : 50 °F ~ 122 °F (10 °C ~ 50 °C) Humidity: 10% – 90%, non-condensing		
	Storage	Temperature : -4 °F ~ 113 °F (-20 °C ~ 45 °C) Humidity : 5 % – 90 %, non-condensing		
Panel Dots (Pixels)		Due to the nature of the manufacturing of this product, approximately 1 pixel per million (1ppm) may be brighter or darker on the LCD panel. This does not affect product performance.		

- The above specifications are subject to change without notice to improve quality.
- This device is a Class B digital apparatus.

(USA Only)

Dispose unwanted electronics through an approved recycler.
To find the nearest recycling location, go to our website:
www.samsung.com/recyclingdirect or call, (877) 278 - 0799

Wireless transmitter / receiver - for Series 7 only

- The wireless equipment mentioned below may cause interference and should not be used for services where personal safety is at risk.

Device name (model name)	UWB/undesignated-purpose device (device that uses the UWB technology), (CY-WDCA7UT)
Authorization number	**SEC-CRM-SEC-CY-WDCA7UT**
Authorized to	Samsung Electronics Co., Ltd.
Manufactured by	Samsung Electronics Co., Ltd.

PowerSaver

The power-saving function of this product reduces power consumption by switching off the screen and changing the color of the power LED if the product is not used for a specified period of time. The power is not turned off in power-saving mode. To switch the screen back on, press any key on the keyboard or move the mouse. Power-saving mode functions only when the product is connected to a PC that has a power-saving function.

POWERSAVER		NORMAL OPERATION MODE (HDMI MODE)	POWER SAVING MODE	POWER TURNED OFF (POWER BUTTON)
Power lamp		On	Blinking	Off
POWER CONSUMPTION	C24B550U	38.0 W	less than 0.8 W	less than 0.3 W
	C24B750X	38.0 W	less than 0.8 W	less than 0.3 W
	C27B750X	40.0 W	less than 0.7 W	less than 0.3 W

- The power consumption level can vary in different operating conditions or when settings are changed.
- To reduce the power consumption to 0 watts, turn off the power switch on the back of the product or disconnect the power cable. Be sure to disconnect the power cable when you will not be using the product for an extended period of time. To reduce the power consumption to 0 watts when the power switch is not available, disconnect the power cable.

Preset Timing Modes

- This product can be set to only one resolution for each screen size to obtain the optimum picture quality due to the nature of the panel. Therefore, a resolution other than the specified resolution may degrade the picture quality. To avoid this, it is recommended that you select the optimum resolution specified for the screen size of your product.

If a signal that belongs to the following standard signal modes is transmitted from your PC, the screen will automatically be adjusted. If the signal transmitted from the PC does not belong to the standard signal modes, the screen may be blank even though the power LED turns on. In such a case, change the settings according to the following table by referring to the graphics card user manual.

RESOLUTION	HORIZONTAL FREQUENCY (KHZ)	VERTICAL FREQUENCY (HZ)	CLOCK FREQUENCY (MHZ)	SYNC POLARITY (H/V)
VESA, 640 x 480	31.469	59.940	25.175	-/-
VESA, 800 x 600	35.156	56.250	36.000	+/+
VESA, 800 x 600	37.879	60.317	40.000	+/+
VESA, 1024 x 768	48.363	60.004	65.000	-/-
VESA, 1280 x 800	49.702	59.810	83.500	-/+
VESA, 1280 x 960	60.000	60.000	108.000	+/+
VESA, 1280 x 1024	63.981	60.020	108.000	+/+
VESA, 1440 x 900	55.935	59.887	106.500	-/+
VESA, 1600 x 1200	75.000	60.000	162.000	+/+
VESA, 1680 x 1050	65.290	59.954	146.250	-/+
VESA, 1920 x 1080	67.500	60.000	148.500	+/+

- Horizontal Frequency

  The time required to scan a single line from the left to the right side of the screen is called a horizontal cycle. The reciprocal number of a horizontal cycle is called horizontal frequency. Horizontal frequency is measured in kHz.

- Vertical Frequency

  Repeating the same picture dozens of times per second allows you to view natural pictures. The repeat frequency is called "vertical frequency" or "refresh rate" and is indicated in Hz.

Specifications of the dongle that connects to a PC - for Series 7 only

Standard	UWB (Ultra Wide Band)
Host interface	USB 2.0 downstream interface
Frequency range	3.1GHz – 10.6GHz (Operating at 3.16GHz – 8.97GHz, BG1, BG2, BG6)
Security	AES128
Data transmission rate	53.3 to 480 Mbps
Sensitivity/Power output	Transmission signal PSD -41.3 dBm/MHz (limit: -41.3dBm/MHz)
Power consumption	1.18 watts (Typical), 4095-length packet, TFC1, Band Group 3, 480 Mbps
Supported models	C24B750X / C27B750X
Dimensions	7 mm x 19 mm x 24.5 mm

Chapter. 13

Appendix

Contact SAMSUNG WORLDWIDE

NOTE

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care Center.

NORTH AMERICA		
U.S.A	1-800-SAMSUNG (726-7864)	http://www.samsung.com
CANADA	1-800-SAMSUNG (726-7864)	http://www.samsung.com/ca http://www.samsung.com/ca_fr (French)
MEXICO	01-800-SAMSUNG (726-7864)	http://www.samsung.com

LATIN AMERICA		
ARGENTINA	0800-333-3733	http://www.samsung.com
BRAZIL	0800-124-421 4004-0000	http://www.samsung.com
BOLIVIA	800-10-7260	http://www.samsung.com
CHILE	800-SAMSUNG (726-7864) From mobile 02-482 82 00	http://www.samsung.com
COLOMBIA	01-8000112112	http://www.samsung.com
COSTA RICA	0-800-507-7267	http://www.samsung.com
DOMINICA	1-800-751-2676	http://www.samsung.com
ECUADOR	1-800-10-7267	http://www.samsung.com
EL SALVADOR	800-6225	http://www.samsung.com
GUATEMALA	1-800-299-0013	http://www.samsung.com
HONDURAS	800-27919267	http://www.samsung.com
JAMAICA	1-800-234-7267	http://www.samsung.com
NICARAGUA	00-1800-5077267	http://www.samsung.com
PANAMA	800-7267	http://www.samsung.com
PERU	0-800-777-08	http://www.samsung.com
PUERTO RICO	1-800-682-3180	http://www.samsung.com
TRINIDAD & TO-BAGO	1-800-SAMSUNG (726-7864)	http://www.samsung.com
VENEZUELA	0-800-100-5303	http://www.samsung.com

EUROPE		
ALBANIA	42 27 5755	http://www.samsung.co
AUSTRIA	0810 - SAMSUNG (7267864,€ 0.07/min)	http://www.samsung.com
BELGIUM	02-201-24-18	http://www.samsung.com/be(Dutch) http://www.samsung.com/ be_fr (French)
BOSNIA	05 133 1999	http://www.samsung.com
BULGARIA	07001 33 11	http://www.samsung.com
CROATIA	062 SAMSUNG (062 726 7864)	http://www.samsung.com
CZECH	800-SAMSUNG(800-726786)	http://www.samsung.com
	Samsung Electronics Czech and Slovak, s.r.o., Oasis Florenc, Sokolovská 394/17, 180 00, Praha 8	
DENMARK	70 70 19 70	http://www.samsung.com
FINLAND	030 - 6227 515	http://www.samsung.com
FRANCE	01 48 63 00 00	http://www.samsung.com
GERMANY	01805 - SAMSUNG (726-7864, € 0,14/Min)	http://www.samsung.com
CYPRUS	From landline : 8009 4000	http://www.samsung.com
GREECE	From landline : 80111-SAM-SUNG (7267864) From landline & mobile : (+30) 210 6897691	http://www.samsung.com
HUNGARY	06-80-SAMSUNG (726-7864)	http://www.samsung.com
ITALIA	800-SAMSUNG (726-7864)	http://www.samsung.com
KOSOVO	+381 0113216899	http://www.samsung.com
LUXEMBURG	261 03 710	http://www.samsung.com
MACEDONIA	023 207 777	http://www.samsung.com
MONTENEGRO	020 405 888	http://www.samsung.com
NETHERLANDS	0900-SAMSUNG (0900-7267864) (€ 0,10/Min)	http://www.samsung.com
NORWAY	815-56 480	http://www.samsung.com
POLAND	0 801-1SAMSUNG(172-678) +48 22 607-93-33	http://www.samsung.com
PORTUGAL	808 20-SAMSUNG (808 20 7267)	http://www.samsung.com
RUMANIA	From landline : 08010-SAM-SUNG (7267864) From landline & mobile : (+40) 21 206 01 10	http://www.samsung.com
SERBIA	0700 SAMSUNG (0700 726 7864)	http://www.samsung.com
SLOVAKIA	0800 - SAMSUNG (0800-726786)	http://www.samsung.com
SPAIN	902 - 1 - SAMSUNG (902 172 678)	http://www.samsung.com
SWEDEN	0771 726 7864 (SAMSUNG)	http://www.samsung.com
SWITZERLAND	0848 - SAMSUNG (7267864,CHF 0.08/min)	http://www.samsung.com http://www.samsung.com/ch_fr/ (French)
U.K	0330 SAMSUNG (7267864)	http://www.samsung.com

EIRE	0818 717100	http://www.samsung.com
LITHUANIA	8-800-77777	http://www.samsung.com
LATVIA	8000-7267	http://www.samsung.com
ESTONIA	800-7267	http://www.samsung.com
TURKEY	444 77 11	http://www.samsung.com

CIS		
RUSSIA	8-800-555-55-55	http://www.samsung.com
GEORGIA	8-800-555-555	http://www.samsung.com
ARMENIA	0-800-05-555	http://www.samsung.com
AZERBAIJAN	088-55-55-555	http://www.samsung.com
KAZAKHSTAN	8-10-800-500-55-500 (GSM:7799)	http://www.samsung.com
UZBEKISTAN	8-10-800-500-55-500	http://www.samsung.com
KYRGYZSTAN	00-800-500-55-500	http://www.samsung.com
TADJIKISTAN	8-10-800-500-55-500	http://www.samsung.com
MONGOLIA	-	http://www.samsung.com
UKRAINE	0-800-502-000	http://www.samsung.com/ua http://www.samsung.com/ua_ru
BELARUS	810-800-500-55-500	http://www.samsung.com
MOLDOVA	00-800-500-55-500	http://www.samsung.com

ASIA PACIFIC		
AUSTRALIA	1300 362 603	http://www.samsung.com
NEW ZEALAND	0800 SAMSUNG (0800 726 786)	http://www.samsung.com
CHINA	400-810-5858	http://www.samsung.com
HONG KONG	(852) 3698 - 4698	http://www.samsung.com/hk http://www.samsung.com/ hk_en/
INDIA	1800 1100 11 3030 8282 1800 3000 8282 1800 266 8282	http://www.samsung.com
INDONESIA	0800-112-8888 021-5699-7777	http://www.samsung.com
JAPAN	0120-327-527	http://www.samsung.com
MALAYSIA	1800-88-9999	http://www.samsung.com
PHILIPPINES	1-800-10-SAMSUNG (726-7864) for PLDT 1-800-3-SAMSUNG (726-7864) for Digitel 1-800-8-SAMSUNG (726-7864) for Globe 02-5805777	http://www.samsung.com
SINGAPORE	1800-SAMSUNG (726-7864)	http://www.samsung.com
THAILAND	1800-29-3232 02-689-3232	http://www.samsung.com

TAIWAN	0800-329-999 0266-026-066	http://www.samsung.com
VIETNAM	1 800 588 889	http://www.samsung.com

MIDDLE EAST		
IRAN	021-8255	http://www.samsung.com
OMAN	800-SAMSUNG (726-7864)	http://www.samsung.com
KUWAIT	183-2255	http://www.samsung.com
BAHRAIN	8000-4726	http://www.samsung.com
EGYPT	08000-726786	http://www.samsung.com
JORDAN	800-22273	http://www.samsung.com
MOROCCO	080 100 2255	http://www.samsung.com
SAUDI ARABIA	9200-21230	http://www.samsung.com
U.A.E	800-SAMSUNG (726-7864)	http://www.samsung.com

AFRICA		
CAMEROON	7095- 0077	http://www.samsung.com
COTE D'LVOIRE	8000 0077	http://www.samsung.com
GHANA	0800-10077 0302-200077	http://www.samsung.com
KENYA	0800 724 000	http://www.samsung.com
NIGERIA	0800-726-7864	http://www.samsung.com
SENEGAL	800-00-0077	http://www.samsung.com
SOUTH AFRICA	0860-SAMSUNG (726-7864)	http://www.samsung.com
TANZANIA	0685 88 99 00	http://www.samsung.com
UGANDA	0800 300 300	http://www.samsung.com

Responsibility for the Pay Service (Cost to Customers)

NOTE

When the service is requested, in spite of in warranty, we may charge you for a visit from a service technician in the following cases.

Not a product defect

Cleaning of the product, Adjustment, Explanation, Re-installation and etc.

- If a service technician gives instructions on how to use product or simply adjusts options without disassembling product.
- If a defect is caused by external environmental factors (Internet, Antenna, Wired Signal, etc.)
- If a product is reinstalled or devices are connected additionally after installing the purchased product for the first time.
- If a product is reinstalled to move to a different spot or to move to a different house.
- If customer requests instructions on how to use because of another company's product.
- If customer requests instructions on how to use the network or another company's program.
- If customer requests software installation and setup for the product.
- If a service technician removes/cleans dusts or foreign materials inside of the product.
- If customer requests an installation additionally after purchasing a product through home-shopping or online.

A Product damage caused by customer's fault

Product damage caused by customer's mishandling or wrong repair.

If a product damage is caused by;

- External impact or drop.
- Use of supplies or separatly sold product unspecified by Samsung.
- Repair from a person besides an engineer of outsourcing service company or partner of Samsung Electronics Co., Ltd.
- Remodeling or repairing the product by customer.
- Using it with incorrect voltage or non-authorised electrical connections.
- Not following the "cautions" in User Manual.

Others

- If product fails by natural disaster (lightning, fire, earthquake, flood damage, etc).
- If consumable components are all used up (Battery, Toner, Fluorescent lights, Head, Vibrator, Lamp, Filter, Ribbon, etc.)

NOTE

If customer requests a service in case the product has no defect, service fee may be charged. So please read User Manual first.

Correct Disposal

Correct Disposal of This Product

(Applicable in the European Union and other European countries with separate collection systems)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.

Correct disposal of batteries in this product

(Applicable in the European Union and other European countries with separate battery return systems.)

The marking on the battery, manual or packaging indicates that the battery in this product should not be disposed of with other household waste. Where marked, the chemical symbols Hg, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/66.

The battery incorporated in this product is not user replaceable. For information on its replacement, please contact your service provider. Do not attempt to remove the battery or dispose it in a fire. Do not disassemble, crush, or puncture the battery. If you intend to discard the product, the waste collection site will take the appropriate measures for the recycling and treatment of the product, including the battery.

Terminology

OSD(On Screen Display)

On screen display (OSD) allows you to customize on-screen settings to optimize the picture quality as required. You can change the screen brightness, tint, size and many other settings using menus displayed on the screen.

HUB

HUB refers to a device that is a common connection point for multiple devices connected over a network. It is used to connect multiple PCs, video devices, office devices and/or LANs over a single network.

Wireless-connection dongle - for Series 7 only

Dongle refers to a device that connects to an input/output port on a PC. It contains a security key or ID so that only the user that connects the wireless dongle to their PC can access a certain application. The wireless-connection dongle itself contains data required for a wireless connection to work. It must be connected to your PC when a wireless connection is needed.

Gamma

The Gamma menu adjusts the grey scale that represents middle tones on the screen. Adjusting the brightness brightens the whole screen, but adjusting Gamma only brightens the medium brightness.

Grey scale

Scale refers to levels of color intensity that show variations of color change from darker areas to brighter areas on the screen. Changes to the screen brightness are expressed with black and white variation, and grey scale refers to the medium area between black and white. Changing the grey scale through Gamma adjustment will change the medium brightness on the screen.

Scanning rate

Scanning rate, or refresh rate, refers to the frequency of screen refreshes. Screen data is transmitted as it refreshes to display an image, although the refreshing is invisible to the naked eye. The number of screen refreshes is called scanning rate and is measured in Hz. A scanning rate of 60Hz means that the screen refreshes 60 times per second. The screen scanning rate depends on the performance of the graphics cards in your PC and monitor.

Horizontal Frequency

Characters or images displayed on the monitor screen consist of numerous dots (pixels). Pixels are transmitted in horizontal lines, which are then arranged vertically to create an image. The horizontal frequency is measured in kHz and represents how many times horizontal lines per second are transmitted and displayed on the monitor screen. A horizontal frequency of 85 means that the horizontal lines that make up an image are transmitted 85000 times per second. The horizontal frequency is indicated in 85kHz.

Vertical Frequency

One image is made of numerous horizontal lines. The vertical frequency is measured in Hz and represents how many images can be created per second by those horizontal lines. A vertical frequency of 60 means that an image is transmitted 60 times per second. The vertical frequency is also called "refresh rate" and affects screen flicker.

Resolution

Resolution is the number of horizontal pixels and vertical pixels that form a screen. It represents the level of display detail. A higher resolution displays a greater amount of information on the screen and is suitable for performing multiple tasks at the same time. E.g. A resolution of 1920 x 1080 consists of 1920 horizontal pixels (horizontal resolution) and 1080 vertical lines (vertical resolution).

Plug & Play

The Plug & Play feature allows the automatic exchange of information between a monitor and PC to produce an optimum display environment. The monitor uses VESA DDC (international standard) to execute Plug & Play.

MHL (Mobile High-Definition Link)

The MHL feature allows you to view videos and photos (saved on a connected mobile device that supports MHL) using the product screen.

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